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INFO

About us: Active since 1997, Club 3D creates Superior Quality products for Video, Data, and Gaming. Be it a TV, Laptop, PC, Console, or Phone Club 3D can fulfill your needs.

With carefully selected products, Club 3D not only provides Superior Quality, we are always looking for solutions that gives us a competitive edge.

With a focus on cables, adapters, docking stations and MST hubs, Club 3D offers a wide range of certified solutions in connectivity for business or at home.

From our head office in The Netherlands and sales office in Germany, Italy, Japan, and Canada we can serve our partners with flexibility and benefit from a profitable partnership.

Offering you support through a support-desk and our users web-forum. There is no question unanswered.

Utilizing the knowledge of the past and looking into the future, great solutions are yet to be revealed by Club 3D.

Products from Club 3D: We offer a wide range of connectivity products, we listen to the market and we offer future proof products. Our innovation stems from understanding technology and exceeding expectations.

Our catalogue comprises a wide range of products such as:

 Universal Docking Stations: Our range of USB docking stations deliver future proof connectivity and adapt your monile devices to the functionality of a desktop computer. It allows to connect to your external drives, screens, audio, ethernet and other devices in a seamless manner to boost your productivity and efficiency. This is a quick and easy way to set up your work place or home office, just Plug and Play.

- Video Splitters and MST (Multi Stream Transport) Hubs: Work and Play Better with multiple monitors. When you connect more displays to your computer you spend less time flippling through files, programs and emails looking for what you want to see. With a video splitter or an MST Hub you can extend a single display video source to multiple ports, providing you the raw power of your existing graphics instead of relying on an unique external graphic solution.
- Cables: The connection speed and the quality of devices in areas such as multimedia, stereo, gaming and Ultra High Definition TV depends on the quality of the cables. Get more from your device and create more flexibility with our cable solutions. We have a wide range of cables to support your audio video needs from extension cables to connecting cables.
- Adapters: Do you need to connect a TV and your device does not support the connector? Our adapters are available in different forms: active adapters, passive adapters, legacy adapters or gender changers. DisplayPort 1.2 to HDMI 2.0 or

USB C latest adapters, we are constantly improving to offer the best quality adapters to exceed your current and future needs. "In our continuous effort to improve our products, we strive to a complete Environmentally friendly packaging for our cables and adapters family"

Why Us? We have Technological Experience: With our company growing and constantly evolving we offer a comprehensive range of technological experience. It is our mission to offer the best solutions to our partners while keeping up with the latest technological advances.

We Listen: We make every decision based on you; your needs, your company.

We like to solve Problems: We are always up for challenge. We like to figure out how things work, and how to make them better. Let us do the job for you!

We make it Simple: Technology can be intimidating. We are all about making it Easy and Understandable for you.

Offices: With our Head Office in The Netherlands and sales offices in Germany, Italy and Canada, we provide superb logistics with same day delivery of receiving your order. We hold stock for our partners in the centre of Europe.





MSTHUB



What is MST? DisplayPort 1.2 added support for Multi Stream Transport (MST), a unique feature. It enables the source system to send multiple independent Video Signals over a single DisplayPort 1.2 output. This enables multiple monitors to be used via a single DisplayPort connector/output. This function requires either monitors that are capable of DisplayPort 1.2 daisy chaining or use of a DisplayPort MST hub. MST hubs are sometimes also called MST splitters or DisplayPort Splitters. With the introduction of USB Type C comes the support for DisplayPortAlt Mode, this allows the functionality of MST to be supported. DisplayPort Alt mode can be supported for version DP1.2 and DP1.4

How many displays can I use? The number of supported displays is mainly determined by the available bandwidth and of course also

depends on the resolution on each display and when using an MST Hub, on the number of video outputs of the MST Hub.

For example with the Club3D CSV-6400 -DisplayPort 1.2 to 4 x DisplayPort you can go up to 4 x 1920x1080 at 60Hz. With the recent introduction of MST Hubs supporting DP1.4 the increase of bandwidth allows up to 2*4K60Hz resolutions. And with the added support of DSC1.2 this can be stretched to 3*4K60Hz resolutions. Our MST hubs CSV-7300 will decompress the DSC 1.2 signal from the source device as long as this is supported. The same goes for our CSV-1550 with a USB C input. This product does the same(3x 4K60Hz) as long as the source supports DP1.4 Alternate Mode. One of the advantages is that it is powered thru the USB C connection, hence no need for external Power.



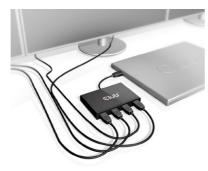




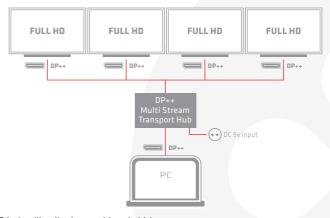
How Does it Work? Your device must have a DisplayPort video output specification 1.2 or above and support Multi Steam Transport (please consult with the GPU manufacturer). The graphics driver controller of your system will take care of the rest, such as setting up the monitor position, resolution etc.

Multi-Stream Transport can be leveraged using two types of system designs. With daisy-chainable displays, each of the displays in the daisy-chain configuration, with the exception of the last display in the chain, must have DisplayPort 1.2 receivers and transmitters in order to send and receive

video stream that is addressed to itself and the others down the chain. Once the monitor extracts the video and audio stream addressed to it, it will then transmit the rest of the video and audio streams down the chain. Each daisy-chainable monitor must have knowledge of the entire chain. The alternate method of utilizing MST to drive multiple displays through the use of an MST



CSV-7300 Multi Stream Transport (MST) Hub DisplayPort 1.4 Triple Monitor



hub. MST hub will split the total bandwidth from a DisplayPort 1.2 output and allow you to send up to 4 independent 1920*1080 signals at 60Hz. The Club 3D MST Hubs are able to distribute those video signals (with sound) to the connected screens. Using this type of configuration also allows the use of Screens with different inputs. To support Screens with inputs such as DVI or HDMI you must make use of passive adapters. For use of Screens with VGA input the adapter can be an active one.









CSV-6200 Multi Stream Transport (MST) Hub DisplayPort**1.2 Dual Monitor USB Powered

The Club3D MST Hubs utilise Multi Stream Transport, a unique DisplayPort* 1.2 feature that creates the ability to transport multiple independent uncompressed display (and audio) streams over a single cable, supporting protected content and high performance applications such as 3D gaming.

This enables the use of multiple monitors connected by MST hub configuration. The Club3D MST Hubs is able to distribute those video streams to the connected screens. The CSV-6200 is Plug & Play and does not require any driver installation.

The Club3D MST Hubs do not increase the bandwidth of the DisplayPort $^{\mathtt{m}}$ 1.2 output of the source system, but it enables the optimal use of it.

Note: When using a DisplayPort™ 1.1 video card the MST hub will act as a splitter, automatically mirroring your video source across all displays.



- Compliant with: DisplayPort™ v1.2a, DisplayPort™ v1.1a, VESA DDM Standard, HDCP V2.0, Display Id, and EDID V1.4
- Supports main link rates of 5.4 Gbps (HBR2), 2.7Gbps (HBR) and 1.62Gbps (RBR) from source
- Input pixel dat a depth 6/8/10/12 bits and supports output pixel format RGB444
- Supports Advanced Wide Eye™ SerDes technology enables high Jitter performance
- Dual Monitor setup resolution up to 2x 2560X1600p @ 60Hz
- Supports AMD Eyefinity™
- Compatible with Microsoft Surface Pro and Intel NUC platforms
- · Works with AMD, Nvidia and Intel Graphics solutions

Note: Some Notebooks/Tablets/MiniPC's have Integrated Graphics Chips which do not support more than 3 screens in total. Please consult with your device specifications for further information.



CSV-6200H Multi Stream Transport Hub DisplayPort

The Club 3D MST Hubs utilise Multi Stream Transport, a unique DisplayPort™ 1.2 feature that creates the ability to transport multiple independent uncompressed display (and audio) streams over a single cable, supporting protected content and high performance applications such as 3D gaming. This enables the use of multiple monitors connected by MST hub configuration. The Club 3D MST Hubs is able to distribute those video streams to the connected HDMI™ screens.

The Club 3D MST Hubs do not increase the bandwidth of the DisplayPort™ 1.2 output of the source system, but it enables the optimal use of it.

The CSV-6200H is Plug & Play and does not require any driver installation.

Note: When using a DisplayPort[™] 1.1 video card the MST hub will act as a splitter, automatically mirroring your video source across all displays.



- Compliant with: DisplayPort™ v1.2a, DisplayPort™ v1.1a, VESA DDM Standard, HDCP v2.0,DisplayId,and EDID v1.4
- Supports main link rates of 5.4Gbps (HBR2), 2.7Gbps (HBR) and 1.62Gbps (RBR) from source
- Supports HDMI™ 1.4 specifications for the 2 outputs.
- Dual Monitor setup resolution up to 2x 2560X1600p @ 60Hz
- Input pixel data depth 6/8/10/12 bits and supports output pixel format RCB444
- Supports Advanced Wide Eye™ SerDes technology enables high Jitter performance
- Supports AMD Eyefinity™
- Compatible with Microsoft Surface Pro and Intel NUC platforms
- · Works with AMD, Nvidia and Intel Graphics solutions

Note: Some Notebooks/Tablets/MiniPC's have Integrated Graphics Chips which do not support more than 3 screens in total. Please consult with your device specifications for further information. Graphics Chips which do not support more than 3 screens in total. Please consult with your device specifications for further information.







CSV-6400 Multi Stream Transport (MST) Hub DisplayPort™ 1.2 Quad Monitor USB Powered

The Club 3D MST Hubs utilize Multi Stream Transport, a unique DisplayPort™ 1.2 feature that creates the ability to transport multiple independent uncompressed display (and audio) streams over a single cable, supporting protected content and high performance applications such as 3D gaming. This enables the use of multiple monitors connected by MST hub configuration. The Club 3D MST Hubs is able to distribute those video streams to the connected screens.

The Club 3D MST Hubs do not increase the bandwidth of DisplayPort $^{\bowtie}$ 1.2 outputs, but it enbales the optimal use of it.

Note: When using a DisplayPort™ 1.1 video card the MST hub will act as a splitter, automatically mirroring your video source across all displays.



- Compliant with: DisplayPort™ v1.2a, DisplayPort™ v1.1a, VESA DDM Standard, HDCP V2.0, Display Id,and EDID V1.4
- Supports main link rates of 5.4 Gbps (HBR2), 2.7Gbps (HBR) and 1.62Gbps (RBR) from source
- Input pixel dat a depth 6/8/10/12 bits and supports output pixel format RGB444
- Supports Advanced Wide Eye™ SerDes technology enables high Jitter performance
- Dual Monitor setup resolution up to 2x 2560X1600p @ 60Hz
- Supports AMD Eyefinity™
- Compatible with Microsoft Surface Pro and Intel NUC platforms
- Works with AMD, Nvidia and Intel Graphics solutions

Note: Some Notebooks/Tablets/MiniPC's have Integrated Graphics Chips which do not support more than 3 screens in total. Please consult with your device specifications for further information.



CSV-7300 Multi Stream Transport (MST) Hub DisplayPort 1.4 Triple Monitor

The Club 3D Multi Stream Transport(MST)Hub DisplayPort** 1.4 Triple Monitor is an integrated solution that allow you to enjoy displaying content onto three different monitors / displays simultaneously under MST mode.

The three screens can accommodate displaying different contents in parallel or by simply extending the existing screen, giving a panoramic view of the content which maximizes the user's visual experience. With its multi-display capabilities, this hub can serve as a convenient and hassle-free portable, alternative solution to the conventional docking station. It's the perfect solution for host devices which feature DP1.2 /1.4 graphic cards that supports all DP Alt mode video signal output, for gaming and commercial applications.



Features:

- Compliant with DisplayPort™1.4 specification
- · Compliant with HDCP 2.2 specification
- Supports Triple Monitor 4K60Hz with DSC 1.2
- Supports dual 4K60Hz@24 bpp without compression
- DSC 1.2 transport and up to 4-slice decompression
- Supports G-Sync, FreeSync and VRR
- High Dynamic Range (HDR) video
- SST or up to 3 stream MST

Available Interfaces:

- 1x DisplayPort™ Male for connecting to Host
- 3x DisplayPort™ Female for connecting to monitors
- 1x DC Power jack(5V / 2A)





CSV-1550 USB Type C 3.2 Gen 1 Multi Stream Transport (MST)Hub DisplayPort1.4 Triple Monitor

The Club 3D USB Type C 3.2 Gen 1 Multi Stream Transport(MST)Hub DisplayPort* 1.4 Triple Monitor is an integrated solution that allow you to enjoy displaying content onto three different monitors / displays simultaneously under MST mode. The three screens can accommodate displaying different contents in parallel or by simply extending the existing screen, giving a panoramic view of the content which maximizes the user's visual experience. With its multi-display capabilities, this hub can serve as a convenient and hassle-free portable, alternative solution to the conventional docking station.

It's the perfect solution for host devices which feature DP1.2 /1.4 graphic cards that supports all DP Alt mode video signal output, for gaming and commercial applications. The MST Hub is directly powered from the host thru the USB Type C 3.2 Gen 1 connector.



- Compliant with DisplayPort[™] 1.4 specification
- Compliant with HDCP 2.2 specification
- Supports 1.4 Triple Monitor 4K60Hz with DSC 1.2
- Supports dual 4K60Hz@24 bpp without compression
- DSC 1.2 transport and up to 4-slice decompression
- High Dynamic Range (HDR) video
- SST or up to 3 stream MST

Available Interfaces:

- 1x USB Type C 3.2 Gen 1 for connecting to Host
- 3x DisplayPort™ Female for connecting to monitor



CSV-1380 HDMI 4K@60Hz UHD Splitter 4 Ports

The Club 3D HDMI™ 4K@60Hz UHD Splitter 4 Ports is a high- performance and small-sized HDMI™ 4K@60Hz UHD Splitter with one input and four outputs. It has a mat black metal casing, which make it very strong and sturdy. An ideal assistant both at home and in the workplace.

This HDMI™ 4K@60Hz UHD Splitter routes high definition video, in resolutions up to 4K@60Hz, and digital audio from the source input to any of the four connected 4K UHD televisions, monitors or projectors.

The CSV-1380 HDMI™ 4K@60Hz UHD Splitter comes with an AC Power Adapter for 5V/ 2A and its maximum power consumption is 3.2 Watt.



- Supported resolutions up to: 4096 x 2160p at 60Hz
- · Supports Full 3D
- Supports HDCP 1.4 and 2.2
- Supports compressed audio
- · Easy to use, no software installation needed
- · Video Amplifier Bandwidth, 6Gbps / 600Mhz

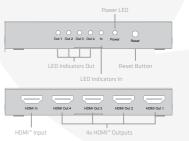
Available Interfaces

Input:

•1x HDMI™ Female

Output:

• 4 x HDMI™ Female









CSV-1370 HDMI 2.0 UHD Switchbox 4 ports

The Club 3d HDMI™ 2.0 UHD 4K60Hz SwitchBox 4 Ports is a high performance and small-sized HDMI™ 2.0 UHD 4K60Hz Switcher with four inputs and one output. It has a mat black metal casing, which make it very strong and sturdy. An ideal assistant both at home and in the workplace. This HDMI™ SwitchBox routes high definition video, in resolutions up to 4K @ 60Hz, and digital audio from any of the 4 source inputs to the connected 4K UHD television, monitor or projector.

This HDMI™ 2.0 UHD 4K60Hz SwitchBox routes high definition video, in resolutions up to 4K @ 60Hz, and digital audio from any of the 4 source inputs to the connected 4KUHD television, monitor or projector.

The CSV-1370 Club 3d HDMI™ 2.0 UHD 4K60Hz Switch-Box comes with an IR Remote control bundled in the hox.



- Supports both mechanical and intelligent switching
- Supported resolutions up to: 4096 x 2160p at 60Hz
- Supports Full 3D
- · HDCP pass through
- · Supports compressed audio such as DTS® Digital, Dolby® Digital
- EDID bypass
- Supports CEC function

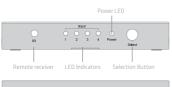
Available Interfaces

Input:

• 4 x HDMI™ Female

Output:

•1x HDMI™ Femal







CSV-1474 USB 3.2 Gen1 Type A to HDMI™ Dual Monitor 4K60Hz

The Club3D USB 3.2 Gen1 Type A to HDMI™ Dual Monitor 4K60Hz product allows you to connect 2 Screens at 4K60Hz to any host system with a free USB3.2 Gen1 Type A port. Featuring the next generation DisplayLink DL6950 SOC, your existing Notebook/PC- System/Mac/Tablet, is ready for the future.

HDMI™ 2.0

The Bandwidth for HDMI™ 2.0 was increased to 6 Gbps. per lane bringing the total bandwidth of the 3 integrated lanes 18 Gbps. HDMI™ 2.0 is also referred to as HDMI UHD, meaning it supports Ultra High Resolutions of up to 3840x2160p at 60Hz. HDMI™ 2.0 is downwards compatible to earlier versions however that will influence the max supported resolutions.



- Works on any host System with USB 3.2 Gen1 Type A output
- Not Downwards compatible to earlier USB versions
- . Compatible with HDMI™ 2.0 Specifications
- Supported Max. output resolutions :
- For Dual Screen Setup: 2x 3840 x 2160 @ 60Hz
- For Single Screen Setup: 4096 x 2160 @ 60Hz
- Support for HDCP 2.2
- Integrated 2.0 Audio and 5.1 Audio
- · Adapt automatically to bandwidth constraints
- · USB Powered, no external power needed



CSV-1477 USB3.2 Gen1 Type A to DisplayPort™1.2 Dual Monitor 4K60Hz Video Splitter

The Club 3D CSV-1477 a USB3.2 Gen1 Type A to DisplayPort™ 1.2 Dual Monitor 4K 60Hz video splitter. This unique product allows you to connect 2 Screens at 4K 60Hz to any host system with a free USB3.2 Gen1 Type A port. Featuring the next generation DisplayLink DL6950 SOC, your existing Notebook/PC-System/Mac/Tablet, is ready for the future. Become more efficient and accomplish more, with 2 displays delivering 4K performance, you can have four times the screen space compared to 1080p.

DisplayPort™++

The Club 3D USB3.2 Gen1 Type A to Displayport™ 1.2 Dual Monitor 4K 60Hz splitter has 2 Displayport™++ outputs or in other words, Displayport™ 1.2 Dual Mode. This means the USB3.2 Gen1 Type A to Displayport™ 1.2 Dual Monitor 4K 60Hz is an active device and when converting the video signal to DVI or HDMI™ you must use passive cables or adapters to connect your screen(s).



- Compatible with Displayport™ 1.2 Dual Mode
- · Supported max output resolutions:
- -1x 5120 x 2880 at 60Hz (you need 2 cables to connect to monitor) or
- 2x 4096 x 2160 at 60Hz
- Integrated 2.0 audio and 5.1 audio
- · Works on any Host System with USB3.2 Gen1 Type A ouput
- · Not downwards compatible to earlier USB versions
- · USB Powered, no external power needed
- Low latency
- · Pixel-perfect graphics
- Adapt automatically to bandwidth constraints
- · Compression tuned for video content and high quality graphics
- · Uncompromised 4K/UHD video quality



CSV-1577 Thunderbolt™3 to Dual Displayport™1.2 Adapter

CSV-1577 - The Thunderbolt™ 3 to Dual Displayport™ 1.2 Adapter lets users easily connect two Displayport™ 1.2 Screens to any device with a Thunderbolt™ 3 interface. This unique adapter is compatible with both Mac™ OS Sierra and Windows™ 10. The output resolution supported is up to 5K @ 60Hz for Single Screen setup(connected with 2 cables) and 2 x 4K @ 60Hz for Dual Screen Setups. It is fully Plug & Play, so no need for driver installation. This stylish adapter has a beautiful Brushed Aluminum Casing making it strong and light.

It is also very slim, 16 mm, making it easy to carry with you.

Multiply your screen area with your tablet, desktop PC or Ultrabook. With multiple monitors your computer will become more useful and you will become more efficient and accomplish more. With 2 displays delivering 4K performance, you can have four times the screen space compared to 1080p.



- Compatible with Thunderbolt™ 3 over USB Type C source
- Compliant to Displayport™ 1.2 specification
- Supported output resolution for Dual Screen setup: up to 4096x2160p @ 60Hz
- Supported output resolution for Single Screen setup: up to 5120x2880p @ 60Hz
- Powered thru Thunderbolt™ 3, 15Watt, no external power needed
- · Featuring Intel Alpine Ridge Controller

Input:

• 1x Thunderbolt™ 3 Male

Output:

2x Displayport™ 1.2 Female

Tip: USB Type C with Thunderbolt" 3 have a lightning symbol. Not all USB Type C have two way data transfer and video signal functions. When converting the DisplayPort" output to another signal, please use active adapters – please contact us if you require more information. Its important that you update your devices with the latest software to ensure the best experience with this Thunderbolt" 3 device.

Important note for Apple M1-chip based computers:

Please note that for Mac Systems based on M1 Architecture the Multi Display function of Thunderbolt 3 is not enabled. This product will not work with the M1 Architecture.







CSV-1574 Thunderbolt 3 to HDMI 2.0 Dual Monitor 4K60Hz

The Club 3D The Thunderbolt™ 3 to HDMI™ 2.0 Dual Monitor 4K60Hz lets users easily connect two HDMI™ 2.0 Screens to any device with a Thunderbolt™ 3 interface. This unique adapter is compatible with both Mac OS and Windows™ 10. The output resolution supported is up to 4K@60Hz for Single Screen and Dual Screen setups. It is fully Plug & Play, so no need for driver installation. This stylish adapter has a beautiful Brushed Aluminum Casing making it strong and light.

It is also very slim, 16 mm, making it easy to carry with vou.

Multiply your screen area with your tablet, desktop PC or Ultrabook. With multiple monitors your computer will become more useful and you will become more efficient and accomplish more. With 2 displays delivering 4K performance, you can have four times the screen space compared to 1080p.



- Compatible with Thunderbolt™ 3 over USB Type C source
- Compliant to HDMI™ 2.0 specification
- Supported output resolution for Single and Dual Screen setup: up to 4K@60Hz / 3840x2160p @ 60Hz
- Powered thru Thunderbolt™ 3, 15 Watt, no external power needed
- Plug & Play, no need for driver installation
- OS Support: Mac OS™ and Windows™ 10

Input:

• 1x Thunderbolt™ 3 Male

Output:

• 2x HDMI™ 2.0 Female

Important note for Apple M1-chip based computers:

Please note that for Mac Systems based on M1 Architecture the Multi Display function of Thunderbolt 3 is not enabled. This product will not work with the M1 Architecture.

CSV-1556 USB Type C MST Hub to Dual HDMI 4K60Hz M/F

The Club 3D CSV-1556 is a Type-C MST Hub that works from any DP1.4 Alternate mode device to two HDMI™ 4K60Hz displays. It allows to extend a type-C port of the host to 2 HDMI displays with ultra high definition max 4K/60Hz for each display simultaneously.

Supporting MST function, dual displays can be showed with different video contents simultaneously. It can work on all DP Alt mode supported Type-C/Thunderbolt PC.



USB TYPE C CONNECTOR

Features:

Features:

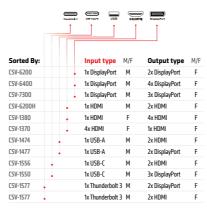
- . Support Type-C input, 2 HDMI™ 4K60Hz outputs
- Support DP1.4 Alt mode with max 8.1Gbps per lane, 32.4Gbps
 4 lanes
- Support to output dual 4K/60Hz with different pictures under MST mode when working on Windows System

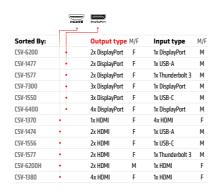
Note: to achieve dual max 4K/60Hz, the host should support DP1.4 Alt mode, when working on DP1.2 host, dual max 4K/30Hz due to bandwidth limitation.

- Support to output dual 4K/60Hz with different pictures under MST mode when working on Windows System
- Support to output dual 4K/60Hz with the same picture under SST mode when working on Mac OS System
- Support 8/10/12 bit color depth output
- Support output pixel format RGB4:4:4/YCbCr4:4:4/YCbCr4:2:2/ YCbCr4:2:0
- Support HDCP2.2&1.4



QUICK SELECTION: VIDEO SPITTERS









What is Frame Rate and what is Refresh Rate?

Frame rates, the term itself refers to the number of individual frames or images that are displayed per second in a film, TV or computer game display. Frame rates that are too low result in either motion blur or motion judder. Its important to understand the role of Frames per second or fps, for TVs the standard is 30fps NTSC and 25 fps for PAL.

> High Frame Rates are the constant goal for enthusiast and effectively a 4K content is appreciated at 40 - 60 fps. The more powerful your CPU or GPU the more frames they are able to generate per second.

Refresh rate is measured in frequency (Hz) which is the number of times per second your monitor can redraw your

screen. A refresh rate of 60Hz means that your display can redraw the entire screen 60 times in one second. In other words, fps is powered by your CPU/GPU and refresh rate is measured by your screen support.

Available Formats Displays differ from one another mainly based on the measurement of pixels it supports. Regardless of the screen size, if the pixel stays at this measurement it will be the same display.

HD High Definition is the most familiar format since it has become the standard for the television viewing experience in households around the world. Any video image with a resolution of 1280*720 pixels a 16:9 aspect ration is defined as HD.

Full HD this one is the higher step of HD, and its defined by the support of 1920*1280 pixels. Most consumers have upgraded their TVs and monitors to 720p/1080p to see crisper, more life like images.

Quad HD or 2K (QHD) offers a more detailed view, having four times the vertical resolution of standard 720p HD to 2560*1440 pixels.

Ultra High Definition (UHD) This format delivers what is considered to be the best viewing experience. 4K refers to a horizontal resolution of approximately 4,000 pixels. 4K displays have a resolution of 3840*2160 in an aspect ratio of 16:9 which is four times the Full HD resolution of 1080p.

















5K its the successor of 4K and it reflect resolutions of up to 5120*2880 and 14Million pixels. Compared to 4K, 5K offers more details, less pixilation and extra space to view more browser windows and documents at one time.

Full Ultra High Definition (FUHD) or 8K oasts a resolution of 7680*4320 pixels.

Quad Ultra High Definition (QUHD) or 10K is a display resolution of 15360*8640 pixels.

What is DSC? The Video Electronics Standard Association Display Stream Compression enables visually lossless compression between application processor and the display sub-system inside UHD (ultra high definition) devices such as mobiles, tablet and television. Visually lossless means that there is no perceivable difference in the quality of the image or video while compression is active.

An important factor in video displays is the number of colors that can be shown. The world offer us an infinite amount of different color shades, while video equipment is necessarily limited in the number of colors that can be displayed which is known as Color Depth. Color depth measures



the number of bits of data that can be assigned to produce different color shades, the more bits the more colors that can be displayed.

What is HDR? High Dynamic Range Displays are able to reproduce more realistic images with:

- ► High Brightness
- ▶ Wider color Gamut
- ► Great Contrast
- ► Higher refresh rate

There are currently two relevant HDR Formats the open HDR10 and Dolby Vision while the broadcast industry is working on a third. The main difference between these two is that HDR10 is based on Static metadata whereas Dolby Vision supports dynamic metadata.



Club 3D Solutions for DVI-D HDCP

The simple way to get the correct adapter with: HDCP-ON or OFF

What is HDCP? Audiovisual content, including movies and TV, is increasingly disseminated in digital form on the Web, as well as on physical media. As a result, content providers are using various content protection technologies to prevent unauthorized uses. High-bandwidth Digital Content Protection (HDCP) protects the last stage in the distribution process, encrypting content transmitted over digital interfaces from set-top boxes, DVD players, personal computers and game consoles, to display devices such as high definition TVs. The consumer electronics industry has rapidly adopted HDCP for the High-Definition Multimedia Interface (HDMI).

HDCP-protected systems may include three types of devices: sources, sinks and repeaters. HDCP protects data as it is transmitted between each of these devices when they are connected via HDMI or other HD-CP-protected digital interfaces.

HDCP versions ranges from 1.0 to 2.2. **HDCP 2.2** versions are not backwards compatible due to security and hacking risks. In general all packaged and digital premium **4K** content released after 2015 will be encrypted with **HDCP version 2.2.**

If you anticipate playback through your system, display interfaces and signal management equipment they will need to be compliant with version 2.2 at every interface.

Some displays don't have the option to support HDCP, so normally they would be excluded from being choosen in a this situation. For this reason Club 3D has the HDCP OFF version to support for example the Apple Cinema Display.



(when your display doesn't support HDCP,

HDCP-OFF:

like the Apple Cinema Display) **CAC-1010-A** DisplayPort to Dual Link DVI-D Active Adapter

CAC-1510-A USB3.2 Gen1 Type-C to Dual Link DVI-D Active Adapter

w€onnect





What is Thunderbolt Technology.

Users have long wanted desktop - level performance from a mobile computer. Thunderbolt was developed to create new user experiences by simultaneously supporting the fastest data and most video bandwidth available on a single cable, while also supplying power. Thunderbolt allows users to connect to monitors that supports mini DisplayPort or DisplayPort connections. Adapters can allow for HDMI, DVI and VGA connections as well.

Thunderbolt 1 and 2 uses the same connector as MiniDisplayPortandThunderbolt3usesUSBTypeC.

Thunderbolt 3 Connection Modes. Thunderbolt 3 dynamically detects the capabilities of the cables and devices that are plugged in. Several modes

can be detected and activated, in a way that is generally transparent.

USB Only Mode. If a USB device is plugged in, a USB Host controller inside the Thunderbolt 3 Enabled system is activated, and the Thunderbolt 3 silicon PHY drives USB (2.0, 3.0 or 3.1) signals to the USB C port. In this mode, the thunderbolt 3 port behaves exactly like a typical USB 3 3.1 enabled connector.

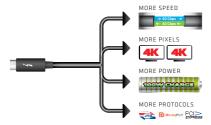
DisplayPort Only Mode. If a DisplayPort Display or adapter is plugged in, the thunderbolt 3 enabled system will detect this and switch the pins driving the USB C connector to the DisplayPort alternate mode. Thunderbolt 3 silicon will then act as a router to send raw DisplayPort traffic from the graphics engine within the system out over the USB C connector pins, and pass that DisplayPort link directly to the display or adapter.

In this mode, a Thunderbolt 3 enabled USB C port

will support a single four -lane (4 x5.4 Gbps, or HBR2) link of DisplayPort. These four links run across the two pairs of high speed wires in the USB-C connector and cable. This kind of Display-Port link can support a single, uncompressed display at 4K resolution at 60 Hz.

DisplayPort and USB Mixed Mode. In this alternate mode of operation, one of the high speed connector pin pairs of signals will be dedicated to DisplayPort (now two lanes at 5.4 Gbps) and one to USB 3.1. This allows for basic connectivity for data and display devices such as docking stations or data and display dongles. With two lanes of DisplayPort 1.2a resolutions at Quad HD (QHD) can be achieved or 2560x1600 at 60Hz

Thunderbolt 3 Mode. If a cable and device supporting Thunderbolt are plugged in, the Thunderbolt silicon activates its highest capability mode, and links two bidirectional links at either 10Gbps or 20Gbps or 40Gbps. Additionally, to fill this







Thunderbolt link, the silicon extracts and routes up to four lanes of PCI Express Gen 3 (4×8 Gbps) and up to two (four lane) full links of DisplayPort out over the Thunderbolt cable and connector to the device(s) attached downstream from the host system.

Thunderbolt Networking Mode. An additional powerful capability of Thunderbolt allows to or more hosts to be connected directly (or on separate ends of a Thunderbolt chain) via Thunderbolt. In this case, Thunderbolt has software that creates an IP networking link between these systems.

This networking mode allows for the Thunderbolt interface to act as a virtual Ethernet adapter and transfer traffic over the PCI Express interface that the Thunderbolt silicon has in each host system.

Power Delivery and Charging. In each of the modes listed hereby, the Thunderbolt 3 system (if designed to support this by the system man-

ufacturer) can also request to charge over the connector from a device or adapter designed for delivering power to the system up to 100W via the USB PD Specification.

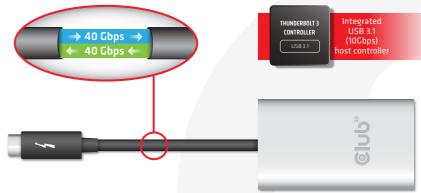
In this way the Thunderbolt 3 enabled USB C Connector can support charging, display, data or all three at the same time in various configurations.

What is Thunderbolt 3.

Thunderbolt is a sophisticated technology, with a simple vision: the USB C that does it all. Thunderbolt 3 is the single connector that can deliver on all your connectivity needs. Connect to a dock and expand to your legacy peripherals. Directly cable to a monitor or two. Or connect to a single (or series) of high performance, dedicated Thunderbolt device.

Thunderbolt™3 One port does it all

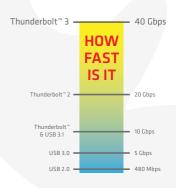
You can do all this and more with a single connector through which you can also charge your system. Thunderbolt 3 builds on the new USB C



reversible connector and integrates the latest USB 3.1 technology to deliver high performance and compatibility to the existing standard.

How Thunderbolt 3 Works

Fundamentally, Thunderbolt is a tunneling architecture designed to take a few underlying protocols and combine them onto a single interface. That way, the total speed and performance of the link can be shared between the underlying usages of these protocols – whether they are data, display, or something else.





At the physical interface level, Intel's Thunderbolt 3 silicon builds in a few important features: A physical interface (PHY) layer that can dynamically switch its operating mode to drive either:

- USB 2.0. 3.0. and 3.1
- DisplayPort* 1.1 and 1.2a
- Thunderbolt at 20 Gbps and 40 Gbps

In the Thunderbolt mode, the Thunderbolt 3 port has the ability to support at least one or two (4-lane) DisplayPort interface(s), and up to four lanes of PCI Express Gen 3.

Same Plug - Different logo - Other specification





Video Performance

Thunderbolt Graphic offload all the heavy lifting of HD Video Playback and 3D Rendering to the GPU of your device. If your GPU performance is good you can even play games on a 4K Monitor. Thunderbolt Graphic provide support for HDCP (this is a form of Content Protection) which will allow you to enjoy your favourite movies

For Apple users: Apple display settings will hide the resolution, so please hold down the option button on the Apple display resolution interface and then click zoom position of the resolution interface to display the hidden resolution. Then check the real resolution.

Discover True Detail

4K also known as Ultra High Definition (UHD) delivers four times as much details as 1080p Full HD, that is eight million pixels compared to two million pixels, bringing more image clarity, fine detail and greater texture.

Introducing Thunderbolt 4

Intel revealed new details in July 2020 about Thunderbolt™ 4, the next generation of its universal cable connectivity solution, delivering increased minimum performance requirements, expanded capabilities and USB4 specification compliance. For the first time, Thunderbolt 4 will offer docks with up to four Thunderbolt ports and universal cables up to 2 meters in length. Intel's upcoming mobile PC processors, code-named "Tiger Lake," will be the first to integrate Thunderbolt 4.

"Thunderbolt provides consumers with a leading connectivity standard across a range of devices, helping to advance computing experiences and delivering on the promise of USB-C with simplicity, performance and reliability. The arrival of Thunderbolt 4 underscores how Intel is advancing the PC ecosystem toward truly universal connectivity solutions."





Why It Matters

Thunderbolt products deliver a consistent, industry-leading set of capabilities for connecting computers to data, video and power with the simplicity of just one USB Type-C port.

Connect to powerful Thunderbolt docks, displays, fast storage or any USB accessory for a clutter-free workspace.

Thunderbolt 4 Connectivity

What It Delivers

Thunderbolt 4 builds on the innovation of Thunderbolt 3 for a truly universal cable connectivity experience. Thunderbolt 4 always delivers 40 Gbps speeds and data, video and power over a single connection. It is the most comprehensive Thunderbolt specification yet with compliance across the broadest set of industry-standard specifications – including USB4, DisplayPort and PCI

Express (PCIe) – and is fully compatible with prior generations of Thunderbolt and USB products.

Thunderbolt 4 certification

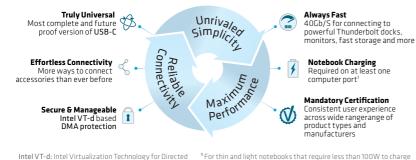
requirements include:

- Double the minimum video and data requirements of Thunderbolt 3.
- Video: Support for two 4K displays or one 8K display.
- Data: PCle at 32 Gbps for storage speeds up to 3,000 MBps.

- Support for docks with up to four Thunderbolt 4 ports.
- PC charging on at least one computer port2.
- Wake your computer from sleep by touching the keyboard or mouse when connected to a Thunderbolt dock.
- Required Intel VT-d-based direct memory access (DMA) protection that helps prevent physical DMA attacks.

Thunderbolt 4 🗲

Truly universal cable connectivity solution for work and play



Thunderbolt 4 Cable innovation World's first universal cable line-up from top to bottom







DOCKING STATION



CSV-1430 USB 3.2 Gen1 Type A 3-Ports Hub with Gigabit Ethernet

The Club 3D USB 3.2 Gen1 Type A Hub 3Ports with Gigabit Ethernet is designed in a stylish manner and very slim which makes it easy to carry around.

The CSV-1430 allows you simultaneous access to 3 x USB 3.2 Gen1 Type A ports and the Ethernet 10/100/1000 Port from just one single USB 3.2 Gen1 Type A up-link. The Device is downwards compatible to USB 2.0 standard, but this will have influence on the performance. The 3 USB ports are all USB Type A and USB 3.2 Gen1 compliant. The Ethernet port is compliant to Gigabit Ethernet 10/100/1000 (RJ45) and full duplex with flow control.

Features:

- USB 3.2 Gen1 Giga LAN with 3 ports USB 3.2 Gen1 Type A HUB
- · Small design make users easy hand carry.
- · Support wake-on-LAN function
- · Support Green Ethernet
- Support IEEE 802.3az(Energy Efficient Ethernet)
- Support IPV4/IPV6 pack Checksum Offload Engine(COE) to reduce CPU loading
- It works with Windows® and Mac OS®
- Bus-nowered

CSV-1431 USB 3.1 Hub 4-Port with Power Adapter

The Club 3D USB 3.1 Gen 1 Hub 4-Port with Power Adapter is designed in a stylish and sturdy aluminum casing and is very slim which makes it easy to carry around.

The CSV-1431 allows you simultaneous access to 4 x USB 3.1 Gen1 ports from just one single USB 3.1 Gen 1 uplink. The CSV-1431 comes standard with a Power Adapter so that the user can connect even the most power-hungry USB devices like External HDD Drives, Digital Camera, Mobile Phones etc.

The 4 USB ports are all USB Type A and USB 3.1 Gen 1 compliant and downward compatible to USB 2.0 standard, but this will have influence on the performance.





- Club 3D USB 3.1 Gen 1 Hub 4-Port with Power Adapter
- · Slim design with Aluminum Casing
- Support auto switching between AC-power and USB-bus-power mode
- Switching power adapter included; Output: DC 5V/2.5A or 5V/4A
- Support Battery Charge 1.2 Fast Charge Function and Apple Charging
- Compatible with USB 3.1 Gen 1 standard and downwards compatible with USB 2.0 standard
- Support the following speed data rate as follows; Low-speed (1.5 Mbps) / Full-speed (12 Mbps) / High-speed (480 Mbps) / Super-speed (5 Gbps) It works with Windows and Mac OS X

The minimum requirements for the pc are:

PC / Laptop / Tablet with free USB 3.1 Gen 1 Port





CSV-3103D USB 3.0 4K Docking Station

The Club 3D Universal USB 3.1 Gen 1 UHD 4K Docking station is designed for all your connectivity needs. With the built-in USB 3.1 gen 1 ports, the docking station enables you to enjoy the super speed data transmission (up to 5Gbps) of your USB peripherals, reducing cable clutter and bringing data and display connectivity to your notebook or tablet via a single USB 3.1 Gen 1 uplink port.

Dual Monitor support allows you to chose from either the DP or HDMI™ output plus a DVI output. It supports display resolution up to 4K at 30Hz for single Monitor setup or full HD at 60Hz for Dual Monitor setups. It offers separate connections for your Speakers or Headset and Microphone. You can even charge your Mobil Phone thru the BC1.2 Fast Charge Port in a manner of minutes.

Functionality is also dependent on the functionality of the connected devices.

BC 1.2 charging

Quick charge your USB enabled devices. It charges three times faster than a standard computer USB 2.0 port.

Featuring DisplayLink™ DL-5900 SoC with Dual Monitor Support

Max supported resolutions:
 For Single Screen Setup (DP or HDMI):
 up to 3840 x 2160 @30Hz

- For Dual Screen Setup: up to 2 x 1920x1200 @60Hz
- · Compatible with USB 3.1 Gen 1 specification
- Audio 2.1 channel connection 3.5mm Jack
- Microphone connection 3.5mm Jack
- 3 x USB 3.1 Gen 1 output ports
- Supports Gigabit Ethernet 10/100/1000
- Support BC1.2 charging (Back port x1)

Output Configuration

HDMI or DisplayPort / DVI / 3 x USB 3.1 Gen 1 / Gigabit Ethernet / Audio 2.1ch / Mic

The minimum requirements for the PC are:

PU: Intel or AMD 2GHz Dual Core or higher processor clock.

RAM: 2GB or above USB port: 3.1 Gen 1 30MB of available disk space

CSV-3104D USB 3.2 Gen 1 4K UHD at 30Hz Mini Docking Station Ultra slim Design

The Club 3D CSV-3104D USB 3.2 Gen 1 4K UHD at 30Hz Mini Docking Station Ultra slim design allows you to expand the outputs of your laptop or ultrabook so it can be used as a traditional desktop PC.

With the advanced DisplayLink™ DL-5900 chip inside, Club3D's USB 3.2 Gen 1 4K UHD at 30Hz Mini Docking Station is able to offer you the perfect solution to connect all your favorite USB devices (*4), as well as connect two external monitors via HDMI™ and a DVI-D Connector, in addition to an Ethernet network Connection it also offers an Audio/Microphone output all via a single USB cable.

Because of its convenient and compact design, the Club 3D USB 3.2 Gen 1 4K UHD at 30Hz Mini Docking Station is a versatile tool that provides you maximum functionality from your Small desktop replacement or mobile companion.

Design: The Club3D USB 3.2 Gen 1 4K UHD 30Hz Mini Docking Station has a modern and minimalistic design and combines the functionality normally found in larger Docking Stations with a convenient, solid and highly portable casing. The miniature size makes it easy to take it with you wherever you go. Use it without external power for maximum mobility*. (*Limits functionality)



- Ultra Slim size: 9.5 x 9.4 x 4.4 cm / 3.74 x 3.7 x 1.73 inch (LxWXH)
- Supports dual External monitors via HDMI™ 1.4 and DVI-I via Displaylink DL-5900 chipset
- USB 3.2 Gen 1 downstream port x 4
- Supports BC 1.2 charging x2
- Supports Gigabit Ethernet (10/100/1000)
- Supports Audio 2.1 channel (3.5 mm Audio combo jack)
- Supports Resolutions up to 4K UHD 3840x 2160p 30Hz (HDMI™) and 2048 x 1152 60Hz (DVI-I)
- · Designed for Laptops and Ultrabooks

Available Interfaces

Input:

• USB 3.0

Output: • HDMI™

- · HDMI''
- DVI-I
- 4 x full size USB 3.2 Gen 1
- RI45 Ethernet
- 3.5mm Audio. Mic Combo iack





USB TYPE A CONNECTOR

CSV-3242HD USB 3.2 Gen 1 Dual Display Docking Station

The Club 3D USB 3.2 Gen 1 Dual Display Docking Station is a verstatile universal docking station which allows you to expand the outputs of your Laptop or Ultrabook so it can be used as a traditional desktop PC.

Featuring the advanced DisplayLink™ DL-3900 chip inside, the USB 3.2 Gen 1 Dual Display Docking Station enables the use of two external High Definition monitors via the HDMI™ and DVI-I output. It has an RJ 45 Ethernet port for a reliable, fast, wired network connection and offers a total of 6 USB ports for your peripherals and storage devices as well as an Audio and Microphone output, all linked to your device via a single USB cable.

Design:

The SenseVision USB 3.2 Gen 1 Dual Display Docking Station has a convenient design and detachable stand, allowing it to be placed on your desk in horizontal or vertical position. It's a productivity enhancing tool for any power user working in a (semi) professional environment

- Compatible with USB 3.1 Gen 1 specification
- Supported Max Resolutions:
- For Single Screen Setup: 2048x1152p (or 1920x1200p) @60Hz
- For Dual Screen Setup: 2 x 2048x1152p (or 1920x1200p) @60Hz
- Support audio 2.1 channel
- Support Gigabit Ethernet
- Support HDMI

Features:

• Support BC1.2 charging (Front x1)

The minimum requirements for the PC are:

CPU: AMD or Intel 2GHz Dual Core or higher processor clock.

RAM: 2GB or above
USB port: 3.1 Gen 1

30MB of available disk space

CSV-3242HDA Ultra Smart Docking Station

The Club 3D USB 3.1 Gen 1 Ultra Smart Docking station is the best solution for expanding the connectivity ports on your Laptop or Ultrabook, allowing it to be used as a traditional Desktop PC. The USB 3.1 Gen 1 interface supports up to 5 Gbps bandwidth, which enables you to enjoy super speed data transmission between your favorite USB peripherals and allows for two external monitors one via HDMI™ and one via DVI-D or VGA, a wired network connection as well as audio and microphone outputs. All it needs is a free USB 3.1 Gen 1 port on your Laptop or Ultrabook to connect to the Ultra Smart Docking station via a single USB cable.

Connections:

From the single USB 3.1 Gen 1 uplink the Club 3D Ultra Smart docking Station offers a complete range of output connections: 5 x USB 3.1 Gen 1, Card-reader for (Micro) SD, Gigabit Ethernet port, DVI-D or VGA and HDMI $^{\rm m}$ ports, Audio and Microphone.

Design:

The Club3D Ultra Smart Docking Station has a convenient and slim Bar Design. The sturdy, brushed aluminium casing makes it crush resistant, high temperature resistant and gives it a premium look and feel. The compact design makes it easy to transport and to place on your desk. The rubber bands keep it in place when you position your device on it.

Features:



- Compatible with USB 3.1 Gen 1 specification
- Supports HDMI
- · Supports DVI-D or VGA
- · Supports resolutions up to:
- For Single Screen Setup: 2048x1152p (or 1920x1200p) @60Hz
- For Dual Screen Setup: 2 x 2048x1152p (or 1920x1200p) @60Hz
- DisplayLink DL-3900 chip inside
- Supports Audio 2.1 channel
- · Supports Microphone
- Supports Gigabit Ethernet
- (Micro) SD card reader
- Power button

The minimum requirements for the PC are:

CPU: Dual Core Intel or AMD CPU, 2GHz or higher GPU: Intel integrated graphics, AMD or Nvidia RAM: 2GB or above USB port: 3.1 Gen 1 30MB of available disk space







USB TYPE C CONNECTOR

CSV-1460 USB3.2 Gen1 Type A or C Dual Display 4K60Hz Docking Station

The Club 3D CSV-1460 USB3.2 Gen1 Type A or C Dual Display 4K 60Hz Docking Station is designed to satisfy all your connectivity demands. It provides no less than 6 USB3.2 Gen1 Ports, Headphone- and Microphone-connection, Gigabit Ethernet port and 2 x Display-port "4K60Hz outputs.

It is fully USB C compatible and a USB3.2 Gen1 Type C to USB3.2 Gen1 type B cable is included in the box.

With this CSV-1460 you can now connect two screens at 3 840x2160 UHID at 60Hz resolution to almost all existing Notebooks or Tablets just by using a single USB3.2 Gen1 Type A or C port! Featuring the advanced Display-Link** DL-6950 chip, you can even connect one screen at a resolution of 5K at 60Hz!

The USB3.2 Gen1 Type A or C Dual Display Docking Station has a convenient design and detachable stand, allowing it to be placed on your desk in horizontal- or vertical position. It's a productivity enhancing tool for any power user working in a (semi) professional environment.

Dual Mode DisplayPort™:

The USB3.2 Gen1 Type A or C Dual Display 4K 60Hz Docking Station has 2 Displayport**++ outputs or in other words, Displayport** 1.2 Dual Mode. This means that for the conversion of the video signal to DVI or HDMI** "passive" cables or adapters must be used.

- Portable Universal USB Gen1 Type A or C Dual Display 4K 60Hz Docking Station
- Fully USB C compatible with USB C cable included in the box
- DisplayLink™ DL-6950 chip inside
- Supports dual External monitors via Displayport™
- Max supported resolution for Single Screen Setup: 5120x2880
 © 60Hz
- Max supported resolution for Dual Screen Setup: 3840x2160
 60Hz
- 6x USB3.2 Gen1 downstream port (BC 1.2 quick charging x1)
- Supports Gigabit Ethernet (10/100/1000Mbps)
- Audio: 2 x 3.5 mm Jack for Headphone and Microphone
- \bullet Supports Windows® 8.1/10 and MAC OS X® up to v10.15

Inputs:

- 1x USB3.2 Gen1 Type B Male
- 1x DC 5v Female

Outputs:

- 2x Displayport™
- 6x USB3.2 Gen1 Type A
- 1x Gigabit Ethernet port
- 1x 3.5mm Audio jack 2.1 ch
- 1x 3.5mm Mic iack

CSV-1541 USB 3.0 Type C to 4x USB Type A Hub

The USB 3.1 Gen 1 Type C to USB Type A Data and Charging Hub is a compact tool which adds four common USB 3.1 Gen 1 Type A ports to your USB 3.1 Gen 1 Type C enabled device. Many of the latest Ultrabooks and Laptops lack a sufficient number of expansion ports, thus making it difficult to use your favorite peripherals like Mice, USB Storage and External HDD's at the same time, while no port is left to charge your Smartphone, headset or other device. This USB Hub gives you four additional USB 3.1 Gen 1 Type A ports for Data and Power. It features fully integrated voltage regulators and Port 5 supports the comprehensive USB Battery Charging Specification 1.2 which supports the following three (Rapid) Charging modes: SDP, CDP and DCP. With this Hub, battery charging can now be done safely for a wide range of portable devices.

- SDP: Standard Downstream Port (USB 2.0 500mA, USB 3.1 Gen 1 900mA charging + Data)
- CDP: Charging Downstream Port (up to 1500mA for supported devices + Data)
- DCP: Dedicated Charging Port (beyond 1500mA for supported devices, NO Data)

Functionality depends on the USB Host controller in your device.

All major operating systems including Windows, Apple OS X, Chrome OS and Linux are supported without the need of installing a driver. Functionality depends on the USB Host controller in your device.



- Reversible USB Type C connector (male)
- Compliant to USB 3.1 Gen 1 Specification, backwards compatible with USB 2.0 Specification
- USB 3.1 Gen 1 Data and Fast Charging through a single cable
- Supports USB 3.1 Gen 1 SuperSpeed data up to 5Gbps
- Supports USB Battery Charging Specification 1.2 (Port 5)
- Support for Vendor specific Charging Modes
- Works out of the box with Windows, Apple OS X, Chrome OS, no driver needed
- · Works with all USB Type C enabled devices

The minimum requirements for the PC are:

CPU: AMD or Intel Dual Core CPU 2GHz or higher processor clock.

GPU: AMD, Intel or Nvidia
RAM: 1GB or higher
USB 2.0. 3.1 Gen 1 Type C Output

USB 3.1 Gen 1 Type C x1

• USB 3.10

- 1.2V Core Power
- 3.3V Suspend Power
- 5V Regulator for 5- 3.3V Output

Output Configuration

- USB 3.1 Gen 1 Type A x3
- USB 3.1 Gen 1 Type A with BC 1.2 Charging support x1





CSV-1560 USB Type C MST Charging Dock

The Universal USB Type C MST Charging Dock is designed for extra connectivity demands. With the CSV-1560, you can extend the connection of a computer to more USB peripherals, Ethernet network, speaker and the microphone via USB Type C interface. Adopting PD Charging technology, upstream charging function through USB Type C interface, you can charge the connected cell phone / tablet / laptop. With the built-in USB 3.0 ports, the dock enables you to enjoy the super speed data transmission between USB peripherals. With the DP or HDMI ports, you can mirror your primary screen, or extend the content. When the system supports MST mode, you can display identical or different content on the external monitors as you wish.

Charging

Laptops / UltraBooks / Tablets often have limited connectivity possibilities. By adopting PD Charging technology and upstream-charging function through USB Type C interface the Club 3D USB Type C MST Charging Dock offers unique functionality. It means you can charge your source Laptop / Tablet thru the Docking Station, as well as make use of all of the (downstream) features of the Docking Station at the same time.

Video output; USB Type C output on source system needs to have Displayport ALT Mode support

Single display

- DP output: Supports 4K resolution up to 3840 x 2160 @ 30Hz
- HDMI™ output: Supports 4K resolution up to 3840 x 2160 @ 30Hz

Dual display

- Supports resolutions up to 2 x 1920 x 1200 @ 60Hz
- SST; In SST mode, the external monitors connected will receive the same output (Mirror)
- MST; In MST Mode you can use Mirror mode or Extended mode and set the primary display
- Supports audio 2.1 channel
- Supports Gigabit Ethernet 10/100/1000
- · Supports Upstream Charging up to 60 Watt
- · Supports Downstream Charging BC 1.2 fast charge

Give your Ultrabook more displays

Ultrabooks and notebooks are increasingly becoming more powerful and smaller in the physical form factor. With a single USB 3.0 port available you can now drive an HDMI and/or DisplayPort screen simultaneously. USB Type C MST Charging Dock For Video Signal the source device needs to support DisplayPort™ Alt Mode

Input:

USB 3.0 Type C

Output Configuration

- 3x USB 3.0 Type A Female, with 1 x BC 1.2 charging
- 1x USB 3.0 Type C Female
- 1x HDMI™ Female
- 1x DisplayPort™ Female
- 1x Gigabit Ethernet Female
- 1x Combo Audio Jack Female

CSV-1591 USB Type C 4-in-1 Hub to HDMI™ 4K60Hz USB Type C PD / USB Type A / Audio jack

The Club 3D Hub is a 4-in-1 USB Type C hub with HDMI*, USB Type A 2.0, 3.5mm audio and USB Type C PD charging, the design perfectly suits all DP Alt-mode capable devices. With this hub, you can enjoy ultra high definition video of your host on big screen, enjoy fantastic music, transmit USB 2.0 data and connect USB Type C PD Adapter to charge the host.

This hub can work on all USB Type C and Thunderbolt™ 3 hosts that supports DP Alt mode. When working on Thunderbolt™ 3 host, this product transmits DP signal.



- Upstream: 1x USB Type C Male (Connection to host) Support DP1.2 Alt mode, with bandwidth max 5.4Gbps per lane, 4 lanes 21.6Gbps
- Downstream: 1x HDM1" Female
 Support HDM1" max 4K/60Hz 4:4:4 8bit with 18Cbps
 Bandwidth Support 6/8/10/12 bit color depth output
 Support output pixel format RCB4:4:4/YCbCr4:4:4/YCbCr4:2:2
 Support HDCP 2.2 6 HDCP1.4
 Support HDR
- 1x USB Type A 2.0, Max 480Mbps bandwidth
- Support BC 1.2 with max 7.5W(5V@1.5A) downstream charging 1x 3.5mm combo audio*
- Support 48K/44.1KHz sampling rate Audio output
- *Note: Audio can be output from HDMI or 3.5mm audio port, below explanation illustrates the priority of audio output when both HDMI and 3.5mm audio ports are connected.
- When source device is connected to this product prior to sink devices, audio outputs from the port that is connected last.
- When sink devices are connected prior to source device connection, audio outputs from 3.5mm audio port



CSV-1592 USB Type C 3.2 Gen1 7in1 Hub HDMI 4K60Hz SD TF Card slot 2x USB Type A USB Type C PD RI45

The Club 3D Hub is a USB Type C 7-in-1 Hub to HDMI™ 4K60Hz /SD-TF Card slot / 2x USB Type A / USB Type C PD / RJ45, providing an ideal solution for extending the port of USB Type C or Thunderbolt™ 3 host (PC/Laptop/tablet/Mobile phone, etc.),especially for the host with a single USB Type C port. This hub adopts the latest DP 1.4 Alt mode technology available today, enabling to output HDMI™ video with max 4k/60Hz and at the meanwhile transfer USB 3.1 data with max 5Gbps. 2x USB Type A ports allow you to connect 2 USB devices simultaneously.

SD/Micro SD allow to insert 2 card slots simultaneously for data transmission or for reading/writing information on the host. RJ45 ports allows the host to get access to Gigabit Ethernet. Besides, the USB Type C female supports PD 3.0 with max 100W PD Charging. It can work on all USB Type C and Thunderbolt 3 host that supports DP Alt mode(including DP1.2 and DP1.4 Alt mode). When working on Thunderbolt 3 host, this product transmits DP signal.



Features

- Upstream: USB Type C Male (Connection to host)
 Support DP 1.4 Alt mode, with bandwidth max 2 lanes 16.2Gbps
 (8.1Gbps per lane),downward compatible with DP1.2 Alt mode
- **Note**: To get max bandwidth, the host should support DP 1.4 Alt mode with DSC format.
- Downstream: Support HDMI™ max 4K/60Hz 4:4:4, 8bit with 18Cbps Bandwidth Support 6/8/10/12 bit color depth output Support output pixel format RGB 4:4:4/YCbCr 4:4:4/YCbCr 4:2:2 Support HDCP 2.26HDCP1.4 Support HDCP

Note: When connecting a DP 1.4 Alt mode supported host, the max resolu- tion of HDMI is 4k/60Hz; When connecting a DP 1.2 Alt mode supported host, the max resolution of HDMI™ is 4k/30Hz due to bandwidth limitation

• 2x USB Type A 3.0

1- USB Type A port supports BC 1.2 with max. 7.5W(5V@1.5A) down-stream charging, 2- USB Type A share max. 8W (5V/1.6A) downstream charging.

Max 5Gbps bandwidth per USB Type A port

connecting to Monitor

• SD/Micro SD

Support Secure Digital v3.0 UHS-I (Ultra High Speed)SDR12 (12.5Mbyte/s)/SDR25(25Mbyte/s)/SDR50(50Mbyte/s)/DDR50(50Mbyte/s)/SDR104(104Mbyte/s)

• RJ45 (Gigabit Ethernet)

USB Type C Female (for PD Charging)

Support 10Mbps/100Mbps/1000Mbps

• USB Type C Female (for PD Charging)

Support PD Charging 100W (20V/5A)

Support Fast Role Swap of PD 3.0, the connected device will not get disconnected while plugging in and out PD Adapter 8W is dedicated to the functioning of this product, the rest power (max 92W) will be passed to charge for the host





CSV-1562 USB C 3.2 Gen1 Universal Triple 4K Charging Dock

The USB C 3.2 Gen1 Universal Triple 4K Charging Docking Station. The Universal Charging Dock is designed to cater for your most versatile connectivity demands. The USB 3.2 Gen 1 interface supports up to 5 Gbps bandwidth, which enables you to enjoy super speed data transmission between your favorite USB peripherals and allows for up to three external 4K displays simultaneously in addition it offers a wired network connection as well as audio and microphone output. By adopting Power Delivery charging technology, the upstream charging function through USB Type C 3.2 Gen1 interface, you can charge a connected cell phone / tablet / laptop. All it needs is a free USB 3.2 Gen 1 port on your Laptop or Ultrabook to connect to the Universal Triple 4K Charging Docking Station via a single USB cable.

Charging

Laptops / UltraBooks / Tablets often have limited connectivity possibilities. By adopting PD Charging technology and upstream-charging function through USB Type C interface the Club 3D USB Type C Charging Dock offers unique functionality. It will charge your Notebook up to 60Watts and thru the downstream port on the front you can charge your phone up to 7.5 Watt on the USB Connector

Downstream port

Features:

- USB3.2 Gen 1 Type A ports (5V/0.9A) x4
- USB3.2 Gen 1 Type A port (Fast Charging) x1
- USB3.2 Gen 1 Type C port x1
- Support audio 2.1 channel
- Support Gigabit Ethernet
- Support DisplayPort (4096 x 2160@60Hz)
- Support 5K (connect to 2 DP displays simultaneously)
- Support HDMI (3840x2160@60Hz)
- . Support PD Charging (for NB)
- 20/15/12/9/5V@3A, up to 60W
- Kensington Lock
- · Power On/Off Button on the front

CSV-1564 USB Type C 3.2 Gen1 Triple Display Dvnamic PD Charaina Dock

The Club-3D USB 3.2 Gen1 C Triple Display Dynamic PD Charging Dock is an integrated solution combining Video, Data, Power, Ethernet and Audio especially for frequent travellers. The Three different Video ports(HDMI™, DisplayPort™, VGA) allow you to enjoy 3 different images or videos on 3 different displays simultaneously under MST mode. The USB Type A ports and USB Type C data port allow you to connect multiple USB devices to the host. The USB Type C charging port allows you to provide power for this Dock and can charge the host PC at the same time by connecting a PD power Adapter, no need to carry your Notebooks Power Supply.

So in general the user is travelling lighter. The Micro SD and SD/MMC ports allow you to read information in the memory card onto the host. The 3.5mm audio port allows enjoying music of the host via a headset. Besides, with the Gigabit Ethernet port, you can enjoy high speed Ethernet on the host. It supports all DP Alt mode supported hosts. (PC, Laptop, Mobile phone, etc.) Dynamic Current Detection and Power Distribution, the product no longer intercepts the fixed power from the external PD Power Supply, but intercepts it according to the actual power consumed by itself, so that the PC can be dynamically charged more power.

For Video Signal the source device needs to support DisplayPort™ Alt Mode



Features:

- Supports DP Alt Mode and PD 3.0
- · Supports max. 5Gbps data transmission on the USB Type C 3.2 Gen1 ports
- One USB Type C 3.2 Gen1 port supports BC1.2 with max 7.5 W output
- One USB Type C 3.2 Gen1 port supports PD charging with max 100W(20V/5A)
- HDMI™ 4K 30 Hz
- DP™ 4K 30 Hz
- VGA 1920x1200 60Hz
- Triple Display support
- One port IEEE 802.3 Ethernet support for up to 1000 BASE-TX
- · SD- and Micro SD Slots work simultaneously
- · Audio port (Stereo), supports both micro- and head-phone
- Supports Dynamic Current Detection and Power Distribution, the product no longer intercepts the fixed power from the external PD PowerSupply, but intercepts it according to the actual power consumed by itself, so that the PC can be dynamically charged more nower.

Available Interfaces:

- 3x USB 3.2 Gen1 Type C Female (1-for Data, 1 for PD charging, 1 for connecting to Host)
- 3x USB 3.0 Type A female
- 2x USB 2.0 Type A female
- 1x HDMI™ female
- 1x DisplayPort™ female
- 1x VGA female
- 1x RI45 iack • 1x SD slot
- 1x Micro SD slot
- 1x 3.5mm Stereo jack(Headphone/Mic)







CSV-1542 USB Gen2 Type C to 2x USB A + 2x USB C Data Hub

The Club 3D CSV-1542 is a USB Gen2 Type C to 2x USB Gen2 Type A + 2x USB Gen2 Type C Data Hub.

The bus-powered compact and comprehensive super fast data hub allows you virtually to connect all data transfer peripherals, including phones/tablets.

The hub is compatible with both new Gen2 USB peripherals as well as downwards compatible to legacy USB devices, max data tranfer rate up to 10Cbps(1280MB/s). Extended connection for existing devices, such as a hard drive, SSD, USB flash,mouse, keyboard and/or printer. The Hub also supports downstream charging, limited to the capabilities of the source.

- 2 USB Gen2 Type A output ports
- 2 USB Gen2 Type C output ports
- USB 3.1 port and the max transfer speed up to 10Gbps (1280MB/s)
- USB 3.0 at speed up to max 5Gbps (640MB/s)
- USB 2.0 at speed up to max 480Mbps (60MB/s)

Applications:

- Extending of both USB A and USB C ports x2
- Connecting SSD drives, Hard Disks and/or USB Flash drives
- . Connecting Keyboard / mouse to Phones/Tablets





CSV-1593 USB 3.2 Gen1 Type-C 8-in-1 hub with 2x HDMI, 2x USB-A, RJ45, SD/ Micro SD card slots and USB Type-C female port

The Club 3D CSV-1593 USB 3.2 Gen1 Type-C 8-in-1 hub with 2 HDMI™, 2 USB-A, RJ45, SD/Micro SD card slots and Type-C female port, providing an ideal solution for extending your USB3.2 Gen1 Type-C or Thunderbolt™3 host port (PC/Laptop/Mobile phone,etc.). Especially for those host with a single Type-C port. This hub adopts the latest DP1.4 Alt mode support, enabling to output HDMI™ video with max 4k60Hz or dual max 4K30Hz under MST mode and simultanuously transfer USB 3.2Gen1 data with max 5Gbps. 2x USB Type-A ports allow you to connect 2 USB devices simultaneously. The SD/Micro SD ports allow to insert 2 card into the slots simultaneously for data transmission or for reading/ writing information on the host. The RI45 port allows the host to get access to Gigabit Ethernet. Besides, the USB 3.2 Gen1 Type-C female supports PD 3.0 with max. 100W PD Charging. It can work on all USB3.2 Gen1 Type-C and Thunderbolt™3 host that supports DP Alt mode(including DP1.2 and DP1.4 Alt mode). When working on Thunderbolt™3 host, this product transmits DP signal.

Features:

Upstream:

- USB 3.2 Gen1 Type-C Male(Connect to host)
- Support DP1.4 Alt mode, with bandwidth max 2 lanes 16.2Gbps (8.1Gbps per lane), downward compatible with DP1.2 Alt mode
 Support DSC
- **Note:** To get max bandwidth, the host should support DP1.4 Alt mode with DSC format.

Downstream:

- HDMI™x2
- Support HDMI™ max 4K/60Hz, 4:4:4, 8bit with 18Gbps Bandwidth
- Support Dual max 4K/30Hz under MST mode (Windows™ System)
- Support Dual max 4K/60Hz under SST mode (Mac™ System ONLY)
- Support 8/10/12 bit color depth output
- Support output pixel format RGB4:4:4/YCbCr4:4:4/YCbCr4:2:2/ YCbCr420
- Support HDCP 2.2&HDCP1.4



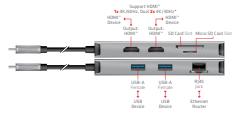




Note: When connecting a DP1.4 Alt mode supported host, the max resolution of HDMI" is 4k/60Hz (dual 4K/30Hz); When connecting a DP1.2 Alt mode supported host, the max resolution of HDMI" is 4k/30Hz (dual 1080P/60Hz) due to handwidth limitation

• USB3.2 Gen1 Type-A

- 1x USB3.2 Type-A port supports BC 1.2 with max 7.5W(5V/1.5A) downstream charging, 1x USB Type-A share max 8W (5V/1.6A) downstream charging.
- Max 5Gbps bandwidth per USB-A port
- SD/Micro SD
- Support Secure Digital v3.0 UHS-I (Ultra High Speed): SDR12 (12.5Mbyte/s)/SDR25(25Mbyte/s)/SDR50(50Mbyte/s)/ DDR50(50Mbyte/s)/SDR104(104Mbyte/s)
- Allow 2 card slots to work simultaneously
- RJ45 (Gigabit Ethernet)
- Support 10M/100M/1000M
- USB 3.2 Gen1 Type-C Female (for PD Charging)
- Supports PD Charging 100W (20V/5A)
- Support for Fast Role Swap of PD 3.0, the connected device will not get disconnected while plugging in and out PD Adapter
- 15W is dedicated to the functioning of this product, the rest power (max 85W) will be passed to charge for the host



QUICK SELECTION: DOCKING

			USS	um type i	₩ RJ45	Home	EnglayFact	Emm DVI	VGA	<u></u>	1.0	SOUTH COMES	medican Minor Pil- cal Palakan	Q -	A
	Input Type	M/F	Output: USB-A	USB-C	RJ45	HDMI	DisplayPort	DVI	VGA	AUDIO	MIC	SD-Card Reader	Micro-SD Card Reader	Include Power Adapter	Include USB Cable
CSV-1430	USB-A	М	3x •	-	•	-	-	-	-	-	-	-	-	-	-
CSV-1431	USB-A	М	4x ●	-	-	-	-	-	-	-	-	-	-	-	-
CSV-3103D	USB-A*	F	3x •	-	•	•	•	•	-	••	••	-	-	•	•
CSV-3104D	USB-A*	F	4x ●	-	•	•	-	•	-	••	••	-	-	•	•
CSV-3242HD	USB-A*	F	6x •	-	•	•	-	•	-	•	•	-	-	•	•
CSV-3242HDA	USB-A	F	5x •	-	•	•	-	•	•	•	•	•	•	•	•
CSV-1460	USB-A/C**	М	6x •	-	•	-	2x •	-	-	•	•	-	-	•	•
CSV-1541	USB-C	М	4x ●	-	-		-	-	-	-	-	-	-		-
CSV-1560	USB-C	F	3x •	•	•	•	•	-	-	• *	••	-	-	•	•
CSV-1591	USB-C	М	1x •	•	-	•	-	-	-	••	••	-	-	-	-
CSV-1592	USB-C	М	2x •	•	•	•	-	-	-	-	-	•	•	-	-
CSV-1562	USB-C	F	5x •	•	•	3x •	2x •	-	-	•	•	-	-	•	•
CSV-1564	USB-C	F	5x •	2x •	•	•	•	-	•		-	•	•	•	•
CSV-1542	USB-C	М	2x •	2x •	-		-	-	-	-		-	-	-	-
CSV-1593	USB-C	М	2x •	•	•	•	-	-	-	-		•	•	-	-

* USB-A to USB-B Cable | ** USB-A to USB-B Cable and/or USB-C to USB-B Cable | • * Combi Jack: Headphone+Mic





USB 3.2 Gen 1 DUAL DISPLAY DOCKING STATION



Possible resolutions of Docking and Video splitters

Displays differ from one another mainly based on the measurement of pixels it supports. Regardless of the screen size, if the pixel stays at this measurement it will be the same display.

HD High Definition is the most familiar format since it has become the standard for the television viewing experience in households around the world. Any video image with a resolution of 1280*720 pixels a 16:9 aspect ration is defined as HD.

Full HD this one is the higher step of HD, and its defined by the support of 1920*1280 pixels.

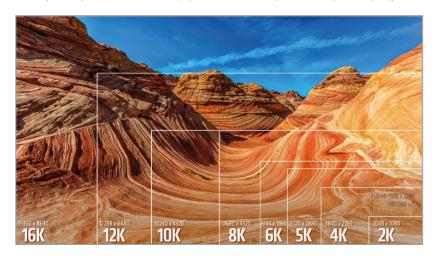
Most consumers have upgraded their TVs and monitors to 720p/1080p to see crisper, more life like images.

Quad HD or 2K (QHD) offers a more detailed view, having four times the vertical resolution of standard 720p HD to 2560*1440 pixels.

Ultra High Definition (UHD) This format delivers what is considered to be the best viewing experience. 4K refers to a horizontal resolution of approximately 4,000 pixels. 4K displays have a resolution of 3840*2160 in an aspect ratio of 16.9 which is four times the Full HD resolution of 1080p

HD	1280 x 720	QHD+	3200×1800	6K	6144 x 3160	16K	15360 x 8640
Full HD	1920 x 1080	UHD / 4K	3840 x 2160	8K	7680 x 4320	-	-
QHD / 2K	2048 x 1080	4K	4096 × 2160	10K	10240 x 4320	-	-
WQHD	2560 × 1440	5K	5120 x 2880	12K	12288 x 6480	-	-

Note: The aspect ratio and pixel ratio between monitors and TV may vary. There are also several differences per brand. Consult the specifications of your supplier for this.



ITEM CODE	MAX SUPPORTED RESOLUTIONS *						
I I EM CODE	x 2 SCREENS	x 3 SCREENS	x 4 SCREENS				
CSV-5200 CSV-6200 CSV-6200H CSV-3203 CSV-6400	2 * 2560x1440 60Hz or 2 * 3840x2160 30Hz	3*1920x1080 60Hz or 2*2560x1440 60Hz +1*1920x1080 60Hz	4 * 1920x1080 60Hz				
CSV-7300	2 * 3840x2160 60Hz (24bpp)	3 * 3840x2160 60Hz	-				
CSV-1545	3840 x 2160 (Ultra HD 4K) @60hz	-	-				
CSV-1546	3840 x 2160 (Ultra HD 4K) @30hz	-	-				
CSV-1550	2 * 3840x2160 60Hz (24bpp)	3 * 3840x2160 60Hz					
CSV-1556	3840 x 2160 (Ultra HD 4K) @60hz	-	-				
CSV-1370	4096 x 2160p at 60Hz (input)	4096 x 2160p at 60Hz (input)	4096 x 2160p at 60Hz (input)				
CSV-1380	4096 x 2160p at 60Hz	-	-				
CSV-1577	4096x2160p @ 60Hz	-	-				
CSV-1574	3840x2160p @ 60Hz	-	-				
CSV-1477	4096 x 2160 at 60Hz	-	-				
CSV-1474	3840*2160 60Hz	-	-				
	CSV-6200 CSV-6200H CSV-3203 CSV-6400 CSV-7300 CSV-1545 CSV-1550 CSV-1556 CSV-1370 CSV-1380 CSV-1577 CSV-1574 CSV-1477	CSV-5200 CSV-6200 CSV-6200 CSV-6200 CSV-6200 CSV-6200 CSV-6200 CSV-6200H CSV-3203 CSV-6400 CSV-3203 CSV-6400 CSV-1545 3840 x 2160 (Ultra HD 4K) @60hz CSV-1546 3840 x 2160 (Ultra HD 4K) @30hz CSV-1550 CSV-1546 2* 3840 x 2160 (Ultra HD 4K) @30hz CSV-1556 3840 x 2160 (Ultra HD 4K) @60hz CSV-1370 4096 x 2160p at 60Hz (input) CSV-1380 4096 x 2160p at 60Hz CSV-1577 4096 x 2160p at 60Hz CSV-1574 3840 x 2160p @ 60Hz CSV-1574 3840 x 2160p @ 60Hz CSV-1574 3840 x 2160p @ 60Hz CSV-1574 4096 x 2160p at 60Hz CSV-1477 4096 x 2160 at 60Hz CSV-1477 4096 x	SUBSTREEM SUBS				

^{* =} The maximum supported resolutions are also dependent on the capacity of the Graphics inside the source system.

DOCKING	ITEM CODE	MAX SUPPORTED RESOLUTIONS *							
DUCKING	ITEM CODE	X 1 SCREEN	X 2 SCREENS	X 3 SCREENS					
	CSV-1560	3840*2160 30Hz	1920*1200 60Hz	-					
	CSV-1460	5120*2880 60Hz	3840*2160 60Hz	-					
	CSV-1562	4K60Hz via DP or HDMI	4K6OHz via DP <i>or</i> HDMI	4K30Hz					
	CSV-1564	HDMI™ 4K 30 Hz	HDMI™ 4K 30 Hz	HDMI™ 4K 30 Hz					
	+	DP™ 4K 30 Hz	DP™ 4K 30 Hz	DP™ 4K 30 Hz					
USB TYPE C	CSV-1564W100	VGA 1920x1200 60Hz	VGA 1920x1200 60Hz	VGA 1920x1200 60Hz					
	CSV-1591	4K6OHz via DP <i>or</i> HDMI	-	-					
	CSV-1592	4K6OHz via DP or HDMI	-	-					
	CSV-1593	4K60Hz	4K/30Hz under MST mode (Windows™ System) 4K/60Hz under SST mode (Mac™ System ONLY)	-					
	CSV-3103D	3840*2160 30Hz	2048*1152 60Hz	-					
USB TYPE A	CSV-3104D CSV-3242HD	3840*2160 30Hz 2048*1152 60Hz	2048*1152 60Hz 2048*1152 60Hz	-					
	CSV-3242HDA	2048*1152 60Hz	2048*1152 60Hz	-					
	CSV-1460	5120*2880 60Hz	3840*2160 60Hz	-					

^{* =} The maximum supported resolutions are also dependent on the capacity of the Graphics inside the source system.







DisplayPort 1.2 to HDMI 2.0 UHD Active Adapter CAC-2070 - The Club 3D CAC-2070 is an active HDMI™ 2.0 signal converter. The DisplayPort™ 1.2 to HDMI™ 2.0 4K 60Hz UHD Active Adapter is the easiest solution for connecting your DisplayPort 1.2 Game PC or Laptop to an HDMI enabled 4K UHD Television, monitor or Projector. The adapter is compliant to HDMI 2.0 specification allowing for 6Gbps TMDS through-put per channel. The interface in the adapter has three lanes for HDMI data, clock, HPD signal and power, offering a total TMDS throughput of 18Gbps.

Features: Compliant to DisplayPort "Specification 1.2 for 1.62Gbps, 2.7Gbps and 5.4Gbps per lane. Effective (video) bandwidth 17.28Gbps - Compliant to HDMI" 2.0 Specification, data rate up to 6Gbps per channel total throughput 18Gbps Supports full link training and no link training Repeater for HDCP 1.3 and HDCP 2.2 Supports 24-bit color and 4:4:4 color sampling Internal YCbCr 4:4:4 /4:2:2 to YCbCr 4:2:0 conversion capability Supports UHD resolutions up to 4096 x 2160p @ 60Hz and 1080p 3D Supports ® Maxwell cards and Intel® HD 5XXX series and newer. Not intended for older architectures.



CAC-2003 Displayport to VGA Active Adapter

The Club 3D is an active DisplayPort™ to VGA signal converter. It enables you to connect your analog VGA Televisions, Monitors or Projectors to your Desktop or Laptop with DisplayPort™ output.

The adapter offers hassle free plug and play functionality, so no Driver installation needed and it is powered by the DisplayPort™ output.

The DisplayPort™ interface in the adapter consists of two main lanes for DP data, AUX channel, HPD signal and power. The VGA output is compliant to VSIS standard and supports up to WUXGA RB timings.

Supports resolutions up to WUXGA 1920x1200p @ 60Hz. The adapter works with AMD, Nvidia and Intel Graphic Solutions.

Features

- DisplayPort™ 1.1a compliant receiver offering 5.4Gbps bandwidth over 2 lanes
- Supports resolutions up to WUXGA 1920x1200p at 60Hz
- Supports HDTV formats up to 1920x1080p Full HD
- Powered by the DisplayPort™ output
- · Automatic sink detection
- Support for multi-monitor setups and AMD Eyefinity
- · Compatible with AMD, Nvidia and Intel Graphics solutions



CAC-1052 DisplayPort to DVI-D SL Active Adapter

The Club 3D is an Active DVI-D signal converter. The DisplayPort™ to DVI-D Adapter is the easiest solution for connecting your DisplayPort™ enabled Desktop or Laptop to a DVI-D enabled High Definition Television, Monitor or Projector.

The adapter works with AMD, Intel® and Nvidia® graphics solutions and supports a maximum resolution of 1920x1200p @ 60Hz. Simply connect the DisplayPort™ (male) end of the connector to your computer and plug your existing DVI-D cable from the display into the DVI (female) adapter.

Setup requires no software installation. The circuitry built into the adapter seamlessly converts the DisplayPort™ video signal into a DVI Digital video signal. Supports AMD Eyefinity and other Multi Monitor configurations. Please note that this adapter is for digital signals only and will not fit analog DVI ports.

Features

- . Compliant to DisplayPort™ 1.1 Specification
- · Compliant to DVI-D specification
- Supports resolutions up to WUXGA 1920x1200p @ 60Hz
- Supports High Definition resolutions up to Full HD 1080p @60Hz
- Supports AMD Evefinity
- · No external power needed
- · Supports AMD, Nvidia® and Intel® graphics solutions
- Vesa ceritfier

Please note that this adapter is for digital signals only and will not fit an analog DVI port.



CAC-1001 DisplayPort to HDMI Passive Adapter

The Club 3D is a passive HDMI™ signal converter. The DisplayPort™ to HDMI™ Adapter is the easiest solution for connecting your DisplayPort™ enabled source device to an HDMI™ enabled High Definition Television, monitor or Projector.

The adapter works with AMD, Intel and Nvidia graphics solutions and supports a maximum resolution of 1920x1200p. Simply connect the DisplayPort™ (male) end of the connector to your computer and plug your existing HDMI™ cable from the display into the HDMI™ (female) adapter. Setup requires no software installation. The circuitry built into the adapter seamlessly converts the DisplayPort™ video signal into a HDMI™ video signal.

Supports resolutions up to 1920 x 1200p @ 60Hz.

Features

- Club 3D DisplayPort™ to HDMI™ Passive Adapter
- Compliant to DisplayPort™ 1.1a Specification
- . Compliant to HDMI™ 1.3 specification
- Supports resolutions up to WUXGA 1920x1200p
- Supports High Definition resolutions up to Full HD 1080p @60Hz
- No external power needed
- Supports AMD, Nvidia® and Intel® HD/ Iris™ graphics solutions
- Vesa Certified



CAC-1000 DisplayPort to DVI-D Single-Link Passive Adapter

The Club 3D is a passive DVI signal converter. The DisplayPort* to DVI-D Adapter is the easiest solution for connecting your DisplayPort* enabled Desktop or Laptop to a DVI enabled High Definition Television, monitor or Projector.

The adapter works with AMD, Intel® and Nvidia® graphics solutions and supports a maximum resolution of 1920x1200p @ 60Hz. Simply connect the DisplayPort™ (male) end of the connector to your computer and plug your existing DVI-D cable from the display into the DVI (female) adapter.

Setup requires no software installation. The circuitry built into the adapter seamlessly converts the Display-Port™ video signal into a DVI digital video signal.

Features

- . Club 3D DisplayPort™ to DVI-D Single Link Passive -Adapter
- . Compliant to DisplayPort™ 1.1a Specification
- Supports Dual Mode DisplayPort™ (DP++)
- Supports resolutions up to WUXGA 1920x1200p @ 60Hz
- Supports High Definition resolutions up to Full HD 1080p @60Hz
- Tail TID 1000p Coorie
- No external power needed
- Supports AMD, Nvidia® and Intel® HD/ Iris™ graphics solutions
- Vesa Certified

Please note that this adapter is for digital signals only and will not fit an analog DVI port.







CAC-1007 DisplayPort 1.4 Active Repeater 4K120Hz
HBR3 F/F

The Club 3D CAC-1007 is a DisplayPort™ 1.4 active repeater, which provides a convenient method for users to extend DP™ signal from host PC to monitor or projector up to 20 meters/65.6 ft (10 meters/32.8 ft in and 10 meters/32.8 ft out) at max 4K120Hz resolution, for 28AWG or above cable.

The Adapter is powered thru an Micro USB to USB Type A cable(provided with the product).

Features

- Support DP1.4™ and downward compatible with lower versions
 Transmission speed 1.62 Gbps / 2.7 Gbps / 5.4 Gbps / 8.1 Gbps
- Support DisplayPort™ 1.4 HBR3 with max video resolution 4K@120Hz.
- Extending Distance: max 20m/65.6ft (10m/32.8ft input, 10m/32.8ft output) for 28AWG or above cable.
- · Support cascading function up to 3 levels

Note: To achieve 8K transmission, the source and display should support DP1.4TM, the connected cable spec should be 28AWG or above DP1.4TM.

When using the cascading function to achieve longer distance, the max resolution/refresh will be decreased. The repeater is not bidirectional, so make sure to connect the source to the input port and display to the output port.



CAC-1010 DisplayPort to Dual Link DVI-D HDCP ON version Active Adapter M/F

The Club 3D CAC-1010 DisplayPort™ + USB Type A to Dual Link DVI HDCP ON version Active Adapter signal format converter seamlessly connect DisplayPort™ based source to conventional DVI displays, such as CRT, LCD monitors and projectors,who do support HDCP, you can enjoy the ultimate widescreen canvas with a resolution of 2560x1440@60Hz on any HDCP capable display. It offers solutions for digital entertainment centre, conference room presentation, school and corporate training environments.

Features

- Support DisplayPort™1.2a input and Dual Link DVI-D or Single-Link DVI output.
- Support Dual-Link DVI-D highest video resolution to WQXGA 2560 x 1600 @50Hz
- Support Dual-Link DVI-D highest video resolution 3840 x 2160 @30Hz
- Support Single-Link DVI highest video resolution 1920 x 1080 @60Hz
- Supports HDCP
- Supports 330MHz clock.
- Powered from DisplayPort™ source and USB Type A Port.



CAC-1010-A DisplayPort to Dual Link DVI-D HDCP OFF version Active Adapter M/F for Apple Cinema Displays

The Club 3D CAC-1010-A DisplayPort** + USB Type A to Dual Link DVI-D HDCP OFF version Active Adapter for Apple Cinema Displays or other displays who do NOT support HDCP, converts the signal seamlessly to connect DisplayPort** based source to conventional DVI displays, such as CRT, LCD monitors and projectors,who do NOT support HDCP, you can enjoy the ultimate widescreen canvas with a resolution of 2560x1440@60Hz on any HDCP capable display. It offers solutions for digital entertainment centre, conference room presentation, school and corporate training environments.

Features

- · Special support for Apple Cinema Displays
- Support DisplayPort™ 1.2a input and Dual Link DVI-D or Single-Link DVI output.
- Support Dual-Link DVI-D highest video resolution to WQXGA 2560 x 1600 @ 50Hz
- Support Dual-Link DVI-D highest video resolution 3840 x 2160 @ 30Hz
- \bullet Support Single-Link DVI highest video resolution 1920 x 1080 60Hz
- · Supports 330MHz clock.
- Powered from DisplayPort™ source and USB Type A Port.



CAC-1056 DisplayPort™ 1.1 to HDMI 4K30Hz VR readv Passive Adapter

The Club 3D is a passive HDMI™ signal converter. The DisplayPort™ 1.1a to HDMI™ 1.4a VR Ready Adapter is the easiest solution for connecting your DisplayPort™ 1.1a enabled Game PC / Laptop / Tablet to an HDMI™ 1.4 enabled (U)HD Television, monitor or Projector. The adapter is fully compliant to HDMI™ 1.4a specification allowing for 3Gbps TMDS through-put per channel. The interface in the adapter has three lanes for HDMI data, clock, HPD signal and power, offering a total TMDS throughout of 9Gbps.

Supports up to Full HD Resolution at 120Hz.

Features

- · Compliant to DisplayPort Specification 1.1a
- Compliant to HDMI™ 1.4a Specification, data rate up to 3Gbps per TMDS channel. Total throughput 9Gbps
- Supports 4K, 2K and 3D video formats over HDMI
- Supports DisplayPort all 4 levels of output and all 4 levels of pre-emphasis
- · Supports full link training and no link training
- Repeater for HDCP 1.3
- · 24-bit color and 4:4:4 color sampling
- YCbCr 4:4:4 and YCbCr 4:2:2 8/10/12 bpc capability
- Supports UHD resolutions up to 3840 x 2160p @ 30Hz and 1920 x 1080p \sim 120Hz 3D
- · Supports AMD Eyefinity feature

How it works: Club 3D Solutions for DVI-D HDCP. See page 15.

The simple way to get the correct adapter with: $\mbox{\bf HDCP-ON}$ or $\mbox{\bf OFF}$







CAC-1070 DisplayPort 1.2 to HDMI 2.0 UHD Active Adapter

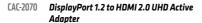
The Club 3D CAC-1070 is an active HDMI™ signal converter. The DisplayPort™ 1.2 to HDMI™ 2.0 UHD Adapter is the easiest solution for connecting your DisplayPort™ 1.2 enabled Game PC or recent laptop to an HDMI™ 2.0 enabled 4K UHD Television, monitor or Projector. The adapter is fully compliant to HDMI™ 2.0 specification allowing for 6Gbps TMDS throughput per channel. The interface in the adapter has three lanes for HDMI data, clock, HPD signal and power, offering a total TMDS throughput of 18Gbps.

Supports up to 4K UHD Resolution at 60Hz.

The DisplayPort™ 1.2 to HDMI™ 2.0 adapter supports (U)HD resolutions of up to 4K UHD 3840x 2160p @ 60Hz for a clear, sharp picture. The support for 60 frames per second provides exceptionally smooth video or gameplay. Use the adapter to play games, view video or browse the internet from your DisplayPort™ 1.2 enabled device in (Ultra) high-resolution. Supporting up to 8 channels of audio, the adapter provides Ultra High Definition digital audio and video. It is the ideal solution for anyone who wants to enjoy 4K UHD/ 60 gameplay but lacks a native HDMI™ 2.0 output in their system configuration.

Features

- Compliant to DisplayPort™ Specification 1.2 for 1.62Gbps, 2.7Gbps and 5.4Gbps per lane. Effective video bandwidth 17.28Gbps
- Compliant to HDMI™ Specification 2.0, data rate up to 6Gbps per TMDS channel. Total throughput 18Gbps
- · Supports full link training and no link training
- Repeater for HDCP 1.3 and HDCP 2.2
- Supports UHD resolutions up to 4096 x 2160p @ 60Hz, 8Bit BPC
- Supports 3D video support up to 1080p @120Hz
- Supports RGB up to 12 bpc, YCbCr -4:2:2 -4:2:0 up to 12 bpc
- · Supports AMD Eyefinity Feature



The Club 3D CAC-2070 is an active HDMI™ 2.0 signal converter. The DisplayPort™ 1.2 to HDMI™ 2.0 4K 60Hz UHD Active Adapter is the easiest solution for connecting your DisplayPort™ 1.2 Game PC or Laptop to an HDMI™ enabled 4K UHD Television, monitor or Projector. The adapter is compliant to HDMI™ 2.0 specification allowing for 6Gbps TMDS through-put per channel. The interface in the adapter has three lanes for HDMI data, clock, HPD signal and power, offering a total TMDS throughput of 18Gbps.

Supports up to 4K UHD Resolution at 60Hz.

The DisplayPort™ 1.2 to HDMI™ 2.0 4K60Hz UHD Active Adapter supports UHD resolutions of up to 4K UHD 4096x 2160p @ 60Hz for a clear, sharp picture. The support for 60 frames per second provides exceptionally smooth video or gameplay. Use the adapter to play games, view video or browse the internet from your DisplayPort™ 1.2 enabled device in Ultra High Resolution. Supporting up to 8 channels of audio,the adapter provides Ultra High Definition digital audio and video. It is the ideal solution for anyone who wants to enjoy 4K UHD/60 gameplay but lacks a native HDMI™ 2.0 output in their system configuration.



Features

- Compliant to DisplayPort Specification 1.2 for 1.62Gbps, 2.7Gbps and 5.4Gbps per lane. Effective (video) bandwidth 17.28Gbps
- Compliant to HDMI™ 2.0 Specification, data rate up to 6Gbps per channel total throughput 18Gbps
- · Supports full link training and no link training
- Repeater for HDCP 1.3 and HDCP 2.2
- Supports 24-bit color and 4:4:4 color sampling
- Internal YCbCr 4:4:4 /4:2:2 to YCbCr 4:2:0 conversion capability
- Supports UHD resolutions up to 4096 x 2160p @ 60Hz and 1080p 3D
- Supports AMD GCN cards, Nvidia® Maxwell cards and Intel® HD SXXX series and newer. Not intended for older architectures.



CAC-1085 DisplayPort 1.4 to HDMI 4K120Hz HDR Active Adapter

The Club 3D CAC-1085 is the perfect solution to connect to any HDMI™ 4K120Hz ready displays* If you have a DisplayPort* 1.4 ready PC or any other device that lacks the new HDMI™ 4K120Hz specification, the Club3D CAC-1085 will be the simple way to upgrade your device and connect to your new TV.

With its DP1.4 DSC video compression technology, this adapter is able to convert DP1.4 video signals to HDMI"2.1, supporting video display resolutions up to 8K (7680 x 4320)@60Hz and creating life like colors and movements with HDR giving users the ultimate visual experience. The Adapter is powered thru an USB Type C to USB Type A cable(provided with the product).

Features

- Compliant with VESA DisplayPort™ v1.4 Specification
- Compliant with HDMI™ v2.1 Specification
- Support both HDCP 1.4 and HDCP 2.2
- Support DSC v1.2a and backward compatible with the former version
- Support Max. resolution/refresh rates up to 8k@60Hz - 4k@120Hz
- Support Dynamic HDR
- Sound Support 5.1-7.1





Active Adapter



The Club3D is a DisplayPort™ 1.4 to HDMI™ 2.0b signal converter. It features support for HDR Video quality for deep color media content playback. The DisplayPort™ receiver supports up to 5,4 Gbps per lane over 4 lanes. The HDMI™ output is fully compliant to HDMI™ specification version 2.0b. Supports up to 4K UHD Resolutions. The CAC-1080 supports UHD resolutions up to 4096 x 2160p at 60Hz.

Color Formats

It supports RGB/YCbCr video color formats with a color depth of 16bpc (or 48 bits per pixel) as long as it fits within the DisplayPort™ and HDMI™ link bandwidth.

The CAC-1080 also supports pixel encoding conversion from RGB or YCbCr 4:2:2 to YCbCr 4:2:0 and YCbCr 4:2:0 pass-trough function. In addition HDR with deep color up to 12Bpc at 4K 60Hz is supported through the conversion of RGB/YChCr 4:2:2 over DP link to YChCr 4:2:0 on the HDMI™ output with a horizontal expansion to CEA timings.

Note: For HDR to function, the source system needs to support DisplayPort™ 1.4 and the screen needs to have support for HDR and / or HDMI™ 2.0 a or b



Features

- DisplayPort™ 1.4 Receiver, up to 5.4Gbps link Rate, HBR2/HBR/
- · Video Stream Handling
- Up to 600Mhz dual pixel path and 16bpc
- RGB/YCbCr 4:2:2/4:2:0 pixel format
- Horizontal expansion of Vesa CVT to CEA Timings (as per DP™
- DisplayPort™ to HDMI™ Stereoscopic 3D Transport
- Frame Sequential to Stacked Top-Bottom Conversion
- Pass-trough of ther 3D Formats
- · Audio Stream Handling
- LPCM and compressed Audio encoding formats
- Max audio sample rate of 192 Khz x 8 Channel or 768 KHz x 2
- Channel
- HDCP Support
- HDCP 1.3 to HDCP 1.4 Repeater function
- HDCP 2.2 to HDCP 1.4 and 2.2 Repeater Function
- HDMI™ transmitter
- Compliant to HDMI™ specifications version 2.0b
- 600MHz max TMDS character clock
- High Dynamic Range (HDR) support both Static- and Dynamic
- CEC Support snooping, tunneling
- Max Video resolution and color depth on HDMI™ output
- 4K 60Hz YCbCr 4:2:2, up to 12bpc
- 4K 60Hz YCbCr 4:2:0, up to 12bpc
- 4K 30Hz RGB/YCbCr 4:2:2, up to 12bpc



CAC-1152 Mini DisplayPort to DVI-D SL Active Adapter

The Club 3D CAC-1152 Active DVI-D signal converter. The Mini DisplayPort™ to DVI-D Adapter is the easiest solution for connecting your Mini DisplayPort™ enabled Desktop or Laptop to a DVI-D enabled High Definition Television. Monitor or Projector.

The adapter works with AMD, Intel® and Nvidia® graphics solutions and supports a maximum resolution of 1920x1200n @ 60Hz.

Please note that this adapter is for digital signals only and will not fit analog DVI-I ports.

Features

- Compliant to DisplayPort™ 1.1 Specification
- · Compliant to DVI-D specification
- Supports resolutions up to WUXGA 1920x1200p @ 60Hz
- · Supports High Definition resolutions up to Full HD 1080n @60Hz
- · Supports AMD Eyefinity
- · No external power needed
- Supports AMD, Nvidia® and Intel® graphics solutions
- Vesa ceritfied



CAC-1170 Mini DisplayPort 1.2 to HDMI 2.0 Active Adapter

The Club 3D CAC-1170 is an active HDMI™ signal converter. The Mini DisplayPort™ 1.2 to HDMI™ 2.0 UHD Adapter is the easiest solution for connecting your Mini DisplayPort™ 1.2 enabled Game PC or recent Laptop to an HDMI™ 2.0 enabled 4K UHD Television, monitor or Projector. The adapter is fully compliant to HDMI™ 2.0 specification allowing for 6Gbps TMDS throughput per channel. The interface in the adapter has three lanes for HDMI data, clock, HPD signal and power, offering a total TMDS throughput of 18Gbps.

Features

- Compliant to DisplayPort™ Specification 1.2 for 1.62Gbps, 2.7Gbps and 5.4Gbps per lane. Effective video bandwidth 17.28Gbps
- Compliant to HDMI™ Specification 2.0, data rate up to 6Gbps per TMDS channel. Total throughput 18Gbps
- · Supports full link training and no link training
- Repeater for HDCP 1.3 and HDCP 2.2
- Supports UHD resolutions up to 4096 x 2160p @ 60Hz, 8Bit BPC
- Supports 3D video support up to 1080p @120Hz
- Supports RGB up to 12 bpc, YCbCr -4:2:2 -4:2:0 up to 12 bpc
- · Supports AMD Eyefinity Feature

Compatibility

Supports Nvidia® Maxwell cards and Intel® Skylake HD 5XX series and newer. Not intended for older architectures (such as Intel Haswell HD 4XXX / NVidia Kepler 5xx series Graphics)







CAC-1110 Mini DisplayPort to DisplayPort Adapter

The Club 3D CAC-1110 is a Mini DisplayPort™ to DisplayPort™ converter. It accepts a Mini DisplayPort™ input from a Mini DisplayPort™ enabled Desktop or Laptop and converts to a full size DisplayPort™ output allowing the use of DisplayPort™ enabled Televisions, Monitors or Projectors. The adapter offers hassle free plug and play functionality. The Mini DisplayPort™ to DisplayPort™ adapter is compliant to the DisplayPort 1.2a specification and supports (Ultra) High Definition resolutions up to 3840x2160p and AMD FreeSync™. Supports DisplayPort™ 1.4 provided the source supports it. This professional grade adapter-cable is ceritfied by Vesa.

Supports resolutions up to 4K60Hz 3840x2160p @ 60Hz. The adapter works with AMD, Nvidia and Intel Graphic Solutions and supports AMD FreeSync™.

Features

- Mini DisplayPort™ 1.2a compliant adapter
- Connects Mini DisplayPort[™] sources to DisplayPort[™] (display) devices
- . Supports DisplayPort™ 1.4 provided the source supports it.
- display resolutions up to 4K 3840x2160p at 60Hz
- \bullet Supports HDTV formats up to 3840x2160p 4K Ultra HD
- Powered by the Mini DisplayPort™ output
- Support for multi-monitor setups and AMD Eyefinity™
- Compatible with AMD, Nvidia and Intel Graphics solutions
- Vesa ceritfied



CAC-1156 Mini DisplayPort 1.1 to HDMI 1.4 VR ready Passive Adapter

The Club 3D CAC-1156 is a passive HDMI™ signal converter. The Mini DisplayPort™ 1.1a to HDMI™ 1.4a VR Ready Adapter is the easiest solution for connecting your Mini DisplayPort™ 1.1a enabled Game PC/ Laptop/ Tablet to an HDMI™ 1.4 enabled (U)HD Television, monitor or Projector. The adapter is fully compliant to HDMI™ 1.4a specification allowing for 3Gbps TMDS through-put per channel. The interface in the adapter has three lanes for HDMI data, clock, HPD signal and power, offering a total TMDS throughput of 9Gbps.

Supports up to Full HD Resolution at 120Hz.

Features

- Compliant to DisplayPort Specification 1.1a
- Compliant to HDMI™ 1.4a Specification, data rate up to 3Gbps per TMDS channel. Total throughput 9Gbps
- \bullet Supports 4K, 2K and 3D video formats over HDMI
- Supports DisplayPort all 4 levels of output and all 4 levels of pre-emphasis
- · Supports full link training and no link training
- Repeater for HDCP 1.3
- 24-bit color and 4:4:4 color sampling
- YCbCr 4:4:4 and YCbCr 4:2:2 8/10/12 bpc capability
- Supports UHD resolutions up to 3840 x 2160p @ 30Hz and 1920 x 1080p ~120Hz 3D
- . Supports AMD Evefinity feature



CAC-1130 MiniDisplayPort 1.2a to Dual Link DVI-D Active Adapterr

The Club 3D Mini DisplayPort" + USB Type A (for Power) to Dual Link DVI signal format converter seamlessly connect Mini DisplayPort" based source to conventional DVI displays, such as CRT, LCD monitors and projectors, you can enjoy the ultimate widescreen canvas with a resolution of 2560 x 1440 @ 60Hz and up to 3840 x 2160 @ 30Hz on any other capable display.

Features

- Support Mini DisplayPort™ 1.2a input and Dual Link DVI or Single-Link DVI output.
- Support Dual-Link DVI highest video resolution to WQXGA 2560 x 1600 @ 60Hz
- Support Dual-Link DVI highest video resolution 3840*2160 @ 30Hz
- Support Single-Link DVI highest video resolution 1920 x 1080
- Support deep color 24bit
- Powered from DisplayPort[™] source and USB Type A Port.



CAC-2170 Mini DisplayPort 1.2 to HDMI 2.0 UHD
Active Adapter

The Club 3Dis an active HDMI™ 2.0 signal converter. The Mini DisplayPort™ 1.2 to HDMI™ 2.0 UHD Active Adapter is the easiest solution for connecting your Mini DisplayPort™ 1.2 Game PC or Laptop to an HDMI™ enabled 4K UHD Television, monitor or Projector. The adapter is compliant to HDMI™2.0 specification allowing for 6Gbps TMD Sthroughput per channel. The interface in the adapter has three lanes for HDMI™ data, clock, HPD signal and power, offering a total TMDS throughput of 18Gbps.

Supports up to 4K UHD Resolution at 60Hz.

- Compliant to DisplayPort™ Specification 1.2 for 1.62Gbps, 2.7Gbps and 5.4Gbps per lane. Effective (video) bandwidth 17.28Gbps
- Compliant to HDMI™ 2.0 Specification, data rate up to 6Gbps per channel total throughout 18Gbps
- · Supports full link training and no link training
- Repeater for HDCP 1.3 and HDCP 2.2
- · Supports 24-bit color and 4:4:4 color sampling
- Internal YCbCr 4:4:4 /4:2:2 to YCbCr 4:2:0 conversion capability
- Supports UHD resolutions up to 4096 x 2160p @ 60Hz and 1080p 3D
- Supports Nvidia® Maxwell cards and Intel® HD SXXX series and newer. Not intended for older architectures.







CAC-1180 Mini DisplayPort 1.4 to HDMI 2.0b HDR

The Club 3D is a Mini DisplayPort™ 1.4 to HDMI™ 2.0b active signal converter. It features support for HDR Video quality for deep color media content playback. The Mini DisplayPort™ receiver supports up to 5.4 Gbps per lane over 4 lanes. The HDMI™ output is fully compliant to HDMI™ specification version 2.0b. The CAC-1180 is downwards compatible to earlier Displayport™ and HDMI™ versions, but this can influence the functionality and/or supported features such as HDR.

Features

- DisplayPort™ 1.4 Receiver, up to 5.4Gbps link Rate,

 LLDD (LDD)
- HBR2 / HBR / RBR
- · Video Stream Handling
- Up to 600Mhz dual pixel path and 16bpc
- RGB/YCbCr 4:4:4/4:2:2/4:2:0 pixel format
- Horizontal expansion of Vesa CVT to CEA Timings (as per DP™ 1.4 spec)
- DisplayPort™ to HDMI™ Stereoscopic 3D Transport
- Frame Sequential to Stacked Top-Bottom Conversion
- Pass-trough of ther 3D Formats
- · Audio Stream Handling
- LPCM and compressed Audio encoding formats
- Max audio sample rate of 192 Khz x 8 Channel or 768 KHz x 2 Channel



CAC-1302 HDMI 1.4 to VGA Adapter with Audio

The Club 3D CAC-1302 is an active $HDMI^{\mathbb{N}}$ 1.4 to VGA signal converter. It allows you to convert digital $HDMI^{\mathbb{N}}$ signal into analog VGA signal and extracts audio signal from $HDMI^{\mathbb{N}}$ signal through the R/L audio port. Besides, if the $HDMI^{\mathbb{N}}$ source display can't supply enough power, you can connect a power adapter or computer to the Micro USB female port to supply power for the adapter.

Features

This product has many features that enable it to perform in a superior manner. Among those features you will find:

- Support HDMI™ A and Micro USB input, VGA and Stereo audio output
- Support HDMI™ resolutions up to 1080p@60HZ, HDMI™ Bandwidth 165MHZ/1.65Gbps per channel (4.95Gbps for all channels)
- Support VGA resolutions up to 1080p@60HZ
- · Support analog audio format
- · Easy to Use: Install in seconds, no need of setting.
- Support HDCP



CAC-1332 HDMI to USB C 4K60Hz Active Adapter

The Club 3D CAC-1332 is an HDMI™ to USB C Active adapter which allows you to transmit an HDMI™ Signal into a USB C DisplayPort supported DisplayThis product supports resolutions of up to 4096x2160@60Hz. This adapter is Uni-Directional it only works from an HDMI™ Source device to an USBC DisplayPort supported display. It is equipped with an USB micro USB to supply power, the maximum power needed is 5V/1A.

Features

This product has many features that enable it to perform in a superior manner. Among those features you will find:

- HDMI™ 2.0 support :
- HDCP 1.4 /2.2
- 8/10/12/ Bit Deep Color
- Status and Control Data Channel (SCDC)
- · Professional quality Adapter
- This Adapter is Uni Directional because its an Active Adapter.
- Backwards compatible to earlier HDMI™ versions, however supported resolutions will be limited to the versions
- Supports resolution up to 4K60Hz
- · Supports Hot Plug Detect
- · Gold plated connectors
- Bundled with a USB A to Micro USB cable for External power support - 5V/1A
- · ABS Housing material



CAC-2330 HDMI to DisplayPort Adapter

The Club 3D HDMI™ to DisplayPort™ Adapter is the perfect solution for connecting devices with an HDMI™ output, such as Game-Console or Notebook, to a display with a DisplayPort™ input. It is equipped with USB-A port to supply power in case there isn't enough power from HDMI source. The HDMI™ to DisplayPort™ Adapter supports resolutions up to UHD 4096x2160 at 30 Hz and Full HD 1920 x 1080p at 120Hz. The CAC-2330 Active Adapter offers plug-and-play installation, providing a hassle-free setup with no software or drivers to install. The DisplayPort™ output is compliant to DisplayPort™ ++ or Dual Mode.

- Compliant to Displayport™ 1.1 Dual Mode and lower versions
- HDMI™ compliant receiver
- Link rate up to 2.97 Gbps per channel
- Color depth up to 48 bits
- 3D video timings
- Link rate up to 2.97 Gbps per channel
- Color depth up to 48 bits
- 3D video timings
- HDCP 1.4 repeater with embedded keys
- Bandwidth
- Video resolution up to 4096x2160 @ 30 Hz;
 1920 x 1080 @ 120 Hz
- Audio 7.1 Ch up to 192 kHz sample rate
- Power
- HDMI source can supply enough power in most cases, the USB-A port only needs to be connected when there isn't enough power.
- USB cable is for optional extra power.







CAC-HMD>DFD HDMI to DVI-D Single Link Passive Adapter

The Club 3D is an HDMI" to DVI signal converter. This Adapter is the easiest solution for connecting your HDMI" enabled Desktop/Laptop/Tablet to a DVI enabled Monitor, Projector or Television. The adapter adapter uses premium components to ensure the highest performance and maximum ease of use resulting in the best user experience.

The adapter is designed to work with devices featuring the HDMI™ (Type A) connector. Simply connect the HDMI™ (male) end of the connector to your Desktop/Laptop/Tablet and plug your existing DVI cable from the display into the DVI (female) adapter. Setup requires no software installation, the adapter seamlessly converts the HDMI™ signal into a DVI video signal.

Please note that this adapter is for digital signals only and will not fit analog DVI-I ports

Features

 Club 3D graphics cards and other AMD, Nvidia or Intel Graphics solutions with an HDMI™ output and Televisions, monitors and projectors with DVI-D (Single Link) or DVI-D (Dual Link) input.



CAC-1331 HDMI™ to DisplayPort™ 4K60Hz M/F Active Adapter

The Club 3D CAC-1331 is an HDMI™ to DisplayPort™ 1.2 Active Adapter which allows you to transmit a HDMI™ signal into a DisplayPort™signal. This product supports DP1.2 specification with resolution up to 4096 x 2160@60Hz. Besides, it is equipped with USB Type A port to supply power in case there isn't enough power from the HDMI™ source. This Adapter is Uni-Directional.

Features

- HDMI™ 2.0 support:
- HDCP 1.4/2.2
- 8/10/12-bit Deep Color
- Status and Control Data Channel (SCDC)
- DisplayPort™ 1.2 support:
- DP1.2a compliant
- Resolution up to 4K60Hz
- Support Four Lanes with 1.62Gbps (RBR), 2.7Gbps (HBR) or
- 5.4Gbps (HBR2) Data Rate
- Support 8/10/12-bit Deep Color
- Support Hot-Plug Detect
- · Gold plated connectors



CAA-DMA>CFA DVI to VGA Passive Adapter

The Club 3D DVI to VGA Passive Adapter enables the connection of your DVI-I or DVI-A supported Gaming PC, workstation or laptop to a legacy VGA supported Analog Television, Monitor or Projector.

Supports resolutions up to WUXGA 1920x1200p @60Hz. Supports 1080p Full HD video playback.

Features

- Connect DVI capable PC's and Laptops to VGA enabled Display devices
- Supports resolutions up to WUXGA 1920x1200p @60Hz
- Supports HDTV formats up to 1080p Full HD
- Supports AMD, Nvidia and Intel graphics solutions



CAA-DMD>HFD3 DVI-D to HDMI Passive Adapter

The Club 3D DVI-D to HDMI™ Passive Adapter enables the connection of your DVI-D supported Gaming PC, workstation or laptop to an HDMI™ supported High Definition Television, Monitor or Projector. It transfers a digital video and a digital audio signal (up to 71 channel) from your graphics solution to the HDMI™ Display Device. Supports resolutions up to WUXGA 1920x1200p @60Hz. Supports 1080p Full HD video playback. Because the adapter is bidirectional you cna also use it as a HDMI to DVI converter.

- Supports resolutions up to WUXGA 1920x1200p@60Hz
- Supports HDTV resolutions up to 1080p Full HD
- · Screw connector for a secure, reliable connection
- · Supports AMD, Nvidia and Intel graphics solutions
- Bidirectional







CAC-1420 USB 3.2 Gen1 Type A to RJ45 2.5Gb adapter

The Club 3D USB 3.2 Gen1 Type A to RI45 2.5Gbps Ethernet Adapter. It enables a Fast Ethernet network connection capability for desktops, notebooks or ultrabooks with a standard USB 3.2 Gen 1 Type A port. This adapter is the best solution for latest devices without an onboard Ethernet port.

Designed with the highest quality casing with smooth finish is the perfect accessory for your travels in addition its USB powered so no need for external power adapter.

Features

- Supports USB 3.2 Gen 1 Type A Port and 2.5Gbps RI45 output
- Supports 10M/100M/1G/2.5G Bandwidth
- Supports twisted pair crossover detection and auto-correction
- USB Bus power (No external Power Needed)
- Supports USB3.2 Gen1, USB 2.0 and USB 1.1 (When using lower USB versions the ethernet speed will be affected)
- . Supports WOL (Wake-On-Lan) Full Duplex Flow (10M / 100M / 1G / 2.5G Rate) Auto Negotiation
- Supports Windows 8/Windows 10/ Mac OsX 10.6 to 10.13 Note: Driver Software installation is required
- Power Consumption : 4.75V ~ 5.25V
- Normal Operating power:
- < 80mA 10M < 130mA 100M < 300mA 1G < 460mA 2.5G



Adapter M/F

USB3.2 Gen1 Type-C to Gigabit Ethernet Adapter M/F The Club 3D CAC-1519 is an USB3.2 GEN1 Type-C to Gigabit Ethernet Adapter. It enables your new MacBook Pro, ChromeBook or other USB-C supported host PC to get access to a fast Ethernet network by connecting the Gigabit Ethernet port. The Ethernet adapter is compact and highly portable. Powered by the USB C port, the adapter requires no external power and is ideal for use with notebooks and Ultrahooks.

Reliable and fast connection

CAC-1519

The USB3.2 GEN1 Type-C to Gigabit Ethernet adapter gives you direct, wired access to a fast ethernet network at places where a wireless connection is slow, inconsistent or not available at all. Benefit from the reliability and speed a wired Ethernet connection offers for online gaming, downloading large files or streaming high resolution media. The USB3.2 GEN1 Type-C to Ethernet Adapter supports all USB3.2 GEN1 Type-C devices.



Features

- · Supports USB-C and Gigabit Ethernet port
- · Supports USB-C plug and play, hot swap
- · No extra driver software is required, and auto driver installation
- Supports 10/100 /1000Mbps bandwidth
- Supports USB3.2 Gen1, USB 2.0 and USB 1.1 (When using lower USB versions the ethernet speed will be affected)
- Supports twisted pair crossover detection and auto-correction
- USB bus power (no external power supply)

How it works:

- Indicator 1: this indicator turns Green to indicate connection establishment between host PC and Ethernet source.
- Indicator 2: this indicator flashes continuously with green light to indicate Ethernet packets transmitting or receiving between host PC and 10M/100M Ethernet source.
- Indicator 3: this indicator flashes continuously with green light to indicate Ethernet packets transmitting or receiving between host PC and 1000M Ethernet source.

NOTE: Indicator lights only visible when the connection is active! The invisible indicator lights are build inside the unit. And will be visible when the connection is made and glow through the White Casing.

* RJ45 Plug / Network Cable IS NOT included.



USB 3.2 Gen1 Type C to RJ45 2.5Gbps

The Club 3D USB 3.2 Gen1 Type C to RI45 2.5Gbps Ethernet Adapter. It enables a Fast Ethernet network connection capability for desktops, notebooks or ultrabooks with a standard USB 3.2 Gen 1 Type C port. This adapter is the best solution for latest devices without an onboard Ethernet port.

Its the perfect accessory for your travels in addition its USB powered so no need for external power adapter.

- Supports USB 3.2 Gen 1 Type C Port and 2.5 Gbps RI45 output
- Supports 10M/100M/1G/2.5G Bandwidth
- · Supports twisted pair crossover detection and auto-correction
- USB Bus power (No external Power Needed)
- Supports USB3.2 Gen1, USB 2.0 and USB 1.1 (When using lower USB versions the ethernet speed will be affected)
- . Supports WOL (Wake-On-Lan) Full Duplex Flow (10M / 100M / 1G / 2.5G Rate) Auto Negotiation
- Supports Windows 8/Windows 10/ Mac OsX 10.6 to 10.13 Note: Driver Software installation is required
- Power Consumption: 4.75V ~ 5.25V
- · Normal Operating power :
- < 80mA 10M < 130mA 100M < 300mA 1G < 460mA 2.5G







CAC-1502 USB 3.1 Type C to VGA Active Adapter

The Club 3D CAC-1502 is an Active VGA signal converter. This USB-C to VGA Active Adapter is the easiest solution for connecting your USB 3.1 Type C source device featuring DisplayPort™ Alternate Mode to a VGA enabled Monitor or Projector. The VGA adapter is compact and highly portable. Powered by the USB-C port, the adapter requires no external power and is also ideal for use with notebooks and Ultrabooks.

Supports up to WUXGA Resolution (1920x1200 pixels).

The USB-C to VGA adapter supports HD resolutions of up to Full HD (1080p) for a clear, sharp picture. The support of 60FPS (frames per second) provides exceptionally smooth video. Use the adapter to play games, view video or browse the internet from your USB-C enabled device on a high-resolution VGA Display Device.

Features

- Reversible USB 3.1 Type C connector
- · Compliant to VESA DisplayPort Alt Mode Standard
- Compliant to VGA analog display standard with 15 pin D-Sub conn
- Supports Monitor resolutions up to WUXGA 1920 x 1200p @ 60Hz
- Powered by USB port (no external power needed)



CAC-1509 USB 3.1 Type C to Mini DisplayPort 1.2 and PD 60 W Adapter

The Club 3D CAC-1509 is a DisplayPort™ signal converter. The USB 3.1 Type C to Mini DisplayPort 1.4(When source supports it) and PD 60W Adapter is the easiest solution for connecting your USB 3.1 Type C source device featuring DisplayPort™ Alternate Mode to a Mini DisplayPort™ 1.4 enabled Ultra High Definition Monitor, Television or Projector. The DisplayPort™ adapter is compact and highly portable. Powered by the USB C port, the adapter requires no external power and is ideal for use with the latest notebooks and Ultrabooks. This signal converter works also with DP1.2.

Supports up to 4K UHD Resolution at 60Hz.

The USB 3.1 Type C to Mini DisplayPort** 1.4(When source supports it) and PD 60W Adapter supports UHD resolutions up to 4K UHD @ 60Hz for a clear, sharp picture. The support for 60 frames per second provides exceptionally smooth video.

Features

- · Reversible USB Type C connector
- Compliant to VESA DisplayPort™ 1.2 Alternate Mode
- Supports UHD resolutions up to 4096x2160p @ 60Hz
- Supports 3D Video formats up to 1920x1080p @ 120Hz
- Supports content protection, HDCP 2.2
- USB Type C Female Charging Port, Upstream Power Delivery Up to 60W (20V/3A)



CAC-1507 USB 3.2 Gen1 Type C to DisplayPort 1.2 4K60Hz

The Club 3D CAC-1507 is a USB Type C to DisplayPort™ Adapter and is the easiest solution for connecting your USB 3.2 Gen1 Type C source device featuring DisplayPort Alternate Mode to a DisplayPort™ 1.2 enabled (Ultra) High Definition Monitor, Television or Projector. The DisplayPort™ adapter is compact and highly portable. Powered by the USB-C port, the adapter requires no external power and is ideal for use with the latest notebooks and Ultrabooks.

Supports up to 4K UHD Resolution at 60Hz and AMD FreeSync.

Features

- Reversible USB 3.1 Type C connector
- . Compliant to VESA DisplayPort™ Alt Mode Standard
- · Supports full link training and no link training
- Supports (U)HD resolutions up to 3840 x 2160p @ 60Hz
- Supports 3D Video formats up to 1080p @ 120Hz
- · Compatibel with Thunderbolt 3
- · Powered by USB Port (no external power needed)



CAC-1504 USB 3.1 Type C to HDMI 2.0 UHD Active Adapter

The Club 3D CAC-1504 is an Active HDMI™ signal converter. The USB 3.1 Type C to HDMI™ 2.0 UHD Adapter is the easiest solution for connecting your USB 3.1 Type C source device featuring DisplayPort Alternate Mode to an HDMI™ 2.0 enabled Monitor, Television or Projector. The HDMI™ adapter is compact and highly portable. Powered by the USB Type C port, the adapter requires no external power and is ideal for use with notebooks and Ultrabooks.

- USB 3.1 Type C to HDMI™ 2.0 Active Adapter
- Compliant to DisplayPort™ Alternate Mode Specification.
 Effective (video) bandwidth 17.28Gbps
- Compliant to HDMI™ Specification 2.0, data rate up to 6Gbps per TMDS channel.
- Total throughout 18Gbps
- · Supports full link training and no link training
- Repeater for HDCP 1.3 and HDCP 2.2
- · 24-bit color and 4:4:4 color sampling
- Internal YCbCr 4:4:4 /4:2:2 to YCbCr 4:2:0 conversion capability
- Supports UHD resolutions up to 3840 x 2160p @ 60Hz and 1080p 3D
- Repeater for HDCP 1.3 and HDCP 2.2
- Compatible with Thunderbolt 3
- Powered by USB Port (no external power needed)







CAC-2504 USB 3.1 Type C to HDMI 2.0 UHD 4K 60Hz Active Adapter

The Club 3D CAC-2504 is an Active HDMI™ signal converter. The USB 3.1 Type C to HDMI™ 2.0 UHD 4K 60Hz HDR Active Adapter is the easiest solution for connecting your USB 3.1 Type C source device featuring Display-Port™ 1.4 Alternate Mode to an HDMI™ 2.0 enabled UHD Monitor, Television or Projector. It features support for HDR Video quality for deep color media content playback. The DisplayPort™ receiver supports up to 5,4 Gbps per lane over 4 lanes.

Supports up to 4K UHD Resolution at 60Hz.

The USB 3.1 Type C to HDMI™ 2.0 UHD 4K 60Hz Active Adapter supports UHD resolutions of up to 4K @ 60Hz for a clear, sharp picture. The support for 60 frames per second provides exceptionally smooth video. Use the adapter to play games, view video or browse the internet from your USB 3.1 Type-C enabled source system on a (Ultra) high-resolution monitor or TV. Supporting up to 8 channels of audio, the adapter provides high-definition digital audio and video.

Features

- · Features reversable USB C connector
- DisplayPort™ 1.4 Receiver, up to 5.4Gbps link Rate, HBR2/HBR/ RBR
- Video Stream Handling
- Up to 600Mhz dual pixel path and 16bpc
- RGB/YCbCr 4:2:2/4:2:0 pixel format
- Horizontal expansion of Vesa CVT to CEA Timings
- DisplayPort™ to HDMI™ Stereoscopic 3D Transport
- Frame Sequential to Stacked Top-Bottom Conversion
- Pass-trough of other 3D Formats



- · Audio Stream Handling
- LPCM and compressed Audio encoding formats
- Max audio sample rate of 192 Khz x 8 Channel or 768 KHz x 2 Channel
- HDCP Support
- HDCP 1.3 to HDCP 1.4 Repeater function HDCP 2.2 to HDCP 1.4 and 2.2 Repeater Fucntion
- HDMI™ transmitter
- Compliant to HDMI™ specifications version 2.0b 600MHz max TMDS character clock
- High Daynamic Range (HDR) support both Static and Dynamic HDR. - CEC Support - snooping, tunneling
- Max Video resolution and color depth on HDMI™ output 4K 60Hz YCbCr 4:2:2, up to 12bpc
- 4K 60Hz YCbCr 4:2:0, up to 12bpc
- 4K 30Hz RGB/YCbCr 4:2:2, up to 12bpc

Note: For HDR to function, the source system needs to support HDR and DisplayPort™ 1.4 Alternate Mode and the screen needs to have support for HDR and/or HDMI™ 2.0a/b.



USB 3.1 Type C to USB 3.0 Type A Adapter

The Club 3D USB 3.1 Type C to USB 3.0 Type A Adapter enables the connection of your existing USB peripherals with the common USB Type A male connector plug to your Laptop, Tablets and Ultrabooks featuring USB 3.1 Type C outputs.

The adapter is backwards compatible and supports USB 2.0 as well. The USB 3.0 SuperSpeed specification ensures a bitrate of 5Gbps

Features

- Connect USB Type A devices to USB 3.1 Type C enabled Laptops. Tablets and Ultrabooks.
- Supports USB 3.0 SuperSpeed specification, data transfer speed up to 5Gbps.
- · Backwards compatible to support USB 2.0 specification.
- Small sized versatile tool
- Supports Windows, Apple OS and Chrome OS.



CAC-1567 USB Type C to DisplayPort 1.4 8K60Hz HBR3 Active Adapter

The CAC-1567 Club 3D USB Type C to DisplayPort™ 1.4 Adapter 8K60Hz provided the source supports DSC1.2 HBR3 allows you to connect any USB Type C source to DisplayPort™ display at max 8K60Hz resolution and HDR support.

It works on any USB Type C host that supports DP 1.4/ DP 1.2 Alt mode, resolutions are limited to the source device. When working on Thunderbolt™ 3 host, this product transmits DP signal.

The soft UltraFlex jacket protects the cable from bends and deformation damage. The Cable is 34AWG and Uni-Directional.

- Supports USB Type C input and DisplayPort™ output
- Supports DisplayPort™ resolutions up to 7680x4320@60Hz
- HDR, provided the source supports DSC1.2 and DP Alt-Mode 1.4
- Supports DisplayPort™ 1.4/1.2 Alt mode
- · Compliant to Thunderbolt 3 specifications
- Supports per lane data rates of 8.1Gbps(HBR3), 5.4Gbps (HBR2), 2.7Gbps (HBR) and 1.62Gbps (RBR)
- . Support up to 48 bit (16bit per channel) deep color
- Supports content protection of HDCP1.4 & HDCP 2.2
- · USB bus power (no external power supply)





CAC-1586 USB Gen2 Type C to HDMI 4K120Hz HDR10 with DSC 1.2 Active Adapter M/F

The Club 3D CAC-1586 is the perfect solution to connect to any HDMI™ 8K60Hz* or 4K120Hz ready display. In case you have a DisplayPort™ Alt Mode 1.4 ready PC with a USB Gen2 Type C connection or any other device that lacks the new HDMI™ 8K60Hz or 4K120Hz specification, the Club3D CAC-1586 will be the simple way to upgrade your device and connect to your new TV*. With its DP1.4 Alt Mode DSC video compression technology, this adapter is able to convert DP1.4 Alt Mode video signals to HDMI™2.1, supporting video display resolutions up to 8K (7680 x 4320)@60Hz ** and creating life like colors and movements with HDR10 giving users the ultimate visual experience. The Adapter is powered thru the USB Gen2 Type Connection.

Features

- Compliant with VESA DisplayPort™ v1.4 Specification
- . Compliant with HDMI™ v2.1 Specification
- Support HDCP 2.2
- Support DSC v1.2a and backward compatible with the former version
- Support Max. resolution/refresh rates up to 4k@120Hz
- Support Dynamic HDR10
- Sound Support 5.1-7.1
- No External Power needed(Powered thru the USB Type Connection)



CAC-1510 USB3.2 Gen1 Type-C to Dual Link DVI-D HDCP ON version Active Adapter M/F

The Club 3D CAC-1510 is a USB Type C input to Dual Link DVI-D or Single Link DVI output adapter **HDCP ON** version for displays which do support HDCP.

USB3.2 Gen1 Type-C to Dual Link DVI or Single Link DVI Adapter is the easiest solution for connecting your USB3.2 Gen1 Type-C source device featuring DisplayPort™ Alternate Mode to a DVI enabled Monitor or Projector. This adapter is compact and highly portable. Powered by the USB3.2 Gen1 Type-C port, the adapter requires no external power and is ideal for use with the latest notehooks and Ultrahooks.

Supports: Dual Link DVI-D highest resolution of 3840 x 2160 at 30Hz

Supports: HDCP

Supports: Deep Color 12 Bit **Supports:** 268.5 MHz

Compatibility

It is compatible with new Apple MacBook Pro, MacBook, and other USB3.2 Gen1 Type-C supported devices with support for DisplayPort™ Alternate Mode over USB3.2 Gen1 Type-C.

Please refer to your device's user manual to confirm the specification and functionality of the USB3.2 Gen1 Type-C port.

Features

- Reversible USB Type-C connector
- Compliant to Dual Link DVI-D Specifications
- Supports resolutions up to 3840 x 2160p @ 30Hz
- Supports resolutions up to 2560 x 1600p @ 60Hz
- Supports: HDCP
- Supports deep Color 12 Bit
- Supports 268.5Mhz Bandwidth



CAC-1510-A USB3.2 Gen1 Type-C to Dual Link DVI-D HDCP OFF version Active Adapter M/F for Apple Cinema Displays

The Club 3D CAC-1510-A is a USB3.2 Gen1 Type-C input to Dual Link DVI-D or Single Link DVI output adapter **HDCP OFF** version for Apple Cinema Displays or other displays which do not support HDCP.

The USB3.2 Gen1 Type-C to Dual Link DVI or Single Link DVI Adapter is the easiest solution for connecting your USB3.2 Gen1 Type-C source device featuring DisplayPort™ Alternate Mode to a DVI enabled Monitor or Projector.

This adapter is compact and highly portable. Powered by the USB C port, the adapter requires no external power and is ideal for use with the latest notebooks and Ultrahooks.

Supports: Dual Link DVI-D highest resolution of 3840 x 2160 at 30Hz.

Supports: Deep Color 12 Bit **Supports:** 268.5 MHz

Compatibility

It is compatible with new Apple MacBook Pro, MacBook, and other USB3.2 Gen1 Type-C supported devices with support for DisplayPort™ Alternate Mode over USB C.

Please refer to your device's user manual to confirm the specification and functionality of the USB3.2 Gen1 Type-C port.

Features:

- Special support for Apple Cinema Displays
- · Reversible USB Type-C connector
- · Compliant to Dual Link DVI-D Specifications
- Supports resolutions up to 3840 x 2160p @ 30Hz
- Supports resolutions up to 2560 x 1600p @ 60Hz
- Supports deep Color 12 Bit
- Supports 268.5Mhz Bandwidth

How it works: Club 3D Solutions for DVI-D HDCP. See page 15. The simple way to get the correct adapter with: HDCP-ON or OFF





QUICK SELECTION: ADAPTERS



CAC-1630 USB Type C + HDMI™ + Mini DisplayPort™1.2 to HDMI™ 4K60Hz HDR M/M Active adapter 32AWG

The Club 3D CAC-1630 is a perfect solution for any meeting room. This adapter will let you connect laptops/tablets/phones that support HDMI™, MiniDP™1.2 and / or USB Type C* video ports to your HDMI™ 4K60Hz ready projector, TV or monitor.

When all three inputs (USB Type C^* , HDMI^{∞} and Mini DP^{∞}) are connected simultaneously, the default display order is: **USB Type C \rightarrow HDMI^{\infty} \rightarrow Mini DP^{\infty}**.

- USB Type C to HDMI[™] supports up to 3840x2160 @ 60Hz display resolution
- HDMI™ to HDMI™ supports up to 3840x2160 @ 60Hz display resolution
- MiniDP™ to HDMI™ supports up to 3840x2160 @ 60Hz display resolution

Please use the supplied Micro USB to USB Type A cable for powering this unit. Support Plug-and-Play, no additional driver/software needed. This Adapter is Uni-Directional.

Features:

- Ideal multiple input meeting room device
- Triple input USB Type C*, HDMI™ and Mini DP™ all Male connectors
- · Support for 3840x2160@60Hz on all 3 input ports
- Single HDMI™ output port for support up to 3840x2160 @ 60Hz display resolution
- · USB Type A for Powering the unit(supplied in the box)
- * When using USB C port please make sure your device supports DisplayPort Alt mode for it to work.

Input:

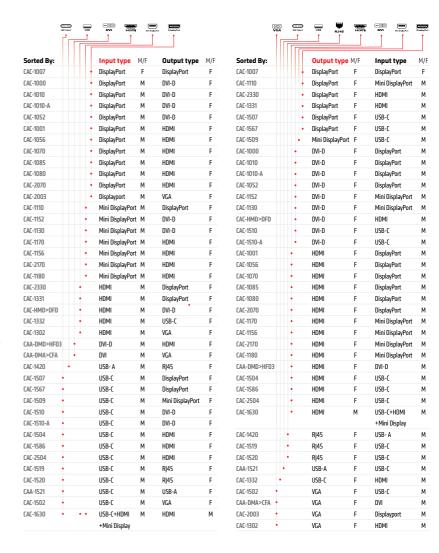
1x HDMI™ (Male) 1x USB Type C* (Male)

1x MiniDP™ 1.2 (Male)

(1x USB Type A to Micro USB for power)

Output:

1x HDMI™ (Male)









CAC-1901 USB Type C Wall Power Charger up to 27W

The Club 3D USB Type C Power Charger, with the USB Type C connector is designed for users who need to charge their PC/NoteBook/Tablet/Mobile Phone and/ or docking station. It has an integrated AC connector for direct use into a wall socket. By adopting PowerDelivery charging technology, the charging function through USB Type C interface, you can charge any USB C powered device.



CAC-1902 USB Type A and C Wall Power Charger, up to 60W

The Club 3D Dual Wall Power Charger for up to 60 Watt, with dual USB Type A and C connector is designed for users who need to charge their PC/NoteBook/Tablet/Mobile phone as well as their docking station. By adopting PowerDelivery charging technology, the charging function through both USB Type A and Type C interface, you can charge any USB C powered device via the bundled USB C cable.

Charging: By adopting PD Charging technology and charging function through both USB Type A and/or C interfaces the Club 3D Power Charger offers unique

Charging: It will charge your device up to 27Watts. By using Qualcomm 4+ charging function battery life is protected by avoiding overheating while charging - this function is available by selected devices. It can charge from 0 to 50% in 15 minutes.

Features

- Multi/purpose-Efficient-Light Weight- Single Port Power
 Charger
- · Supports USB Type C PD charging function for up to 27W
- · Bundled with a USB Type C (power) connection cable
- · Removes the need for multiple Power Chargers
- · Simple installation
- Integrated mains connector
- 1x Output port: USB Type C port
- Support PD Charging 3V-9V/3A, 9V-11V/2.45A up to 27W Support Qualcomm 4+ Quick Charge function
- · Meets ROHS, FCC and CE EMI requirements

functionality. The USB Type C connector is compliant with PDZ.O charger and Quick Charger 3.0 technology (available only when using USB C alone) It will charge your device up to 60W when used alone and 45W in combination with 12W of the USB A.

Features

- Multi purpose Efficient-Light Weight Dual Port Power Charger
- Supports Dual Charging function for up to 60W
- Bundled with a USB Type C(power) connection cable
- · Removes the need for multiple Power Chargers
- Simple installation
- Integrated mains connector (country specific version)
- USB Type A port x1 output 5V /2.4A = 12W max
- USB Type C port x1 Support PD Charging. When charge in combination with USB A output is 5V-9V-12V-15V/3A, 20V/2.25A up to
 45W. When charged USB C alone output is 5V-9V-12V-15V-20V/3A to 60W supports PD 2.0 and QuickCharging 3.0
- Overload, Over Current, Over Temperature and Short Circuit Protection
- · Auto Recovery from Fault condition

POWER CHARGERS

The Club3D Power Charge is designed for users who need to charge their PC/NoteBook/Tablet/Mobile Phone and/or docking station.

It has an integrated AC (EU-UK-US) connector for direct use into a wall socket or with a cable.



CAC-1903 USB Type A and C Power Charger 5 ports up to 111W

The Club 3D CAC-1903 USB Type A and C, Power Charger, 5 ports up to 111W, with 4x USB Type A and 1x USB Type C connectors is designed for users who want to use only 1 Power Charger for their PC/Laptop/Tablet/ Mobile phone as well as their docking station. It has a separate power cord for use into a wall socket. By adopting PowerDelivery charging technology, this versatile Power Charger provides you with both charging function through 4 times USB Type A and 1x USB Type C interface, you can charge any connected Mobile phone / Tablet / NoteBook or any other supported devices. Furthermore we bundle the USB Type C cable for your convenience.

Charging: By adopting PD Charging technology and charging function through both USB Type A and Type C interfaces the Club 3D Power Charger offers versatile and unique functionality with its 5 ports. It will charge your devices up to 111 Watts. Built-in safeguards protect your devices against excessive current, overcharging and overheating.



- · Multi purpose 5 Port USB Power Charger
- · Supports PD charging
- Provide power up to 111W input:100-110/240VAC
- Bundled with a USB Type C Power cable
- 4 ports USB Type A and 1 port USB Type C
- 1x USB Type C port supports PD charging with max 87W(20V/4.35A)
- 4x USB Type A ports supports PD charging with max 24W(5V/4.8A)
- Bundled with a power-cord (country specific version)
- · Eliminates the need for multiple Power Chargers
- · Light weight and easy installation







What is HDMI Technology?

The **High Definition Multimedia Interface** (HDMI) is a digital connectivity standard capable of carrying the highest quality, uncompressed high - definition digital video content, up to 8 separate channels of uncompressed digital audio and device command controls all on a single cable.

HDMI was created as a forward looking specification with the ability to be updated as further market requirements became apparent. One of the advantages of HDMI is that it is an evolving standard that responds to market conditions and keeps pace with the latest technological innovations. This is a benefit to manufacturers, content providers and consumers in that HDMI continues to enable the highest quality consumer experience. As such the specification has seen several major enhancements.

HDMI Version History

HDMI 1.0 - Initial Specification. Support bandwidth to 4.95Gpbs

HDMI 1.1 - Added support for DVD Audio.

HDMI1.2 - Added support for SACD Audio. Permitted PC Applications to Use only RGB color Space. Supported low voltage (AC Coupled Sources) in PCs HDMI 1.3 - Increases bandwidth to 10.2 Gbps (340Mhz). Offers support for 16 bit Color, increases refresh rates (ex. 120Hz), support for 144 p / WQXGA Resolutions. Supports xvYCC Color Space Standard. Adds Features to automatically correct audio video synchronization (lip Sync) . Adds mini connector. Adds support for Dolby True HD and DTS HD Master Audio Standards

HDMI 1.4 - Adds and HDMI Ethernet Channel (HEC) which allows for a 100Mbit/s Ethernet Connection between to HDMI Connected Devices so they can

share an internet connection, and introduces an audio return channer **(ARC)** 3D over HDMI, a new Micro HDMI Connector, expanded set of color spaces with the addition of sYCC601, Adobe RGB and Adobe YCC601 and an Automotive Connection System. It also defines several stereoscopic 3D formats including field alternative (interlaced), frame packing. With the version 1.4b released in October 2011 it adds the ability to carry 3D 1080p video at 120Hz allowing frame packing 3D format at 1080p60 per eye (120Hz total)

HDMI 2.0 AKA Premium High Speed - Increases bandwidth to 18 Gbps (594Mhz) the increases comes from the maximum throughput from 3.4 Gbps to 6 Gbps . 2.0a added support for High Dynamic Range (HDR) video with static metadata. and 2.0b which extends support for HDR.

HDMI 2.1 AKA Ultra High Speed, announced on January 2017, adds support for Dynamic HDR which is dynamic metadata that allows for changes on a scene by scene or frame by frame basis. Also added suportfor eARC. Increases bandwidth to 48 Gbps, The increase of bandwidth is achieved with a max-



HIGH DEFINITION MULTIMEDIA INTERFACE

imum throughput from 6 Gbps to 12 Gbps and from 3 lanes to 4 lanes, allowing for resolutions up to 4K120Hz or 8K60Hz.

HDMI Version History

Why HDMI 2.1?

Any digital interface is ultimately limited by bandwidth, or speed of the connection. In the case of HDMI 1.4 that upper boundary is the 330Mhz data rate per channel (for a total of 10.2Gb/s) at which the interface runs

This maximum overall data rate of 10.2 Gigabits per second (Gb/s) with its maximum clock rate of 330Mhz is enough to transport Full HD (1920*1080) and Wide UXGA (1920*1080) Images.

Support here is up to 1080p at 60Hz at 4:4:4 (RCB) or 2160p at 30Hz at 4:4:4 (RCB) 8bit only or 2160p at 60Hz at 4:2:0.

In order to accommodate faster refresh rates HDMI 2.0 was introduced with the overall data rate







through the interface to 18 Gb/s and a clock rate of 594Mhz. This specification is able to transport up to 2160p at 60Hz at 4:4:4 (RGB) 8bit only and it supports HDR specifications. In addition **HDMI 2.**0 supports **USB Type C Alt Mode**.

HDMI 2.0b which is backwards compatible with earlier versions of HDMI specification is an update of the HDMI2.0a specification. It also enables key enhancements to support market requirements for enhancing the consumer video and audio experience. The key advanced feature enabled by HDMI 2.0b is - it enables transmission of High Dynamic Range (HDR) video in the form of HLG (Hybrid Log Gamma)

The next generation **HDMI 2.1** increases the overall data rate to **48Gb/s** supporting resolutions of up to **4K120Hz** or **8K60Hz** and is able to additionally support up to 16 Bit colors and supports **DSC** (Display Stream Compression) for greater efficiency. This is called the Ultra HighSpeed Cable and can be checked by the apropriate **HDMI Certification app**.

Why is a certified HDMI Cable Important?

Why is a certified HDMI Cable Important?

The Ultra High Speed HDMI Cable Certification Program is the new program for the creators of HDMI Technology. It encompasses additional and enhanced cable testing as well as an authentication and verification program.

Cables are tested to ensure they support the full 48Gbps bandwidth from the HDMI 2.1 specification plus an EMI test to ensure cables minimize interference with wireless signals.

Only Ultra High Speed HDMI Cables are allowed to Display and promote the official Premium HDMI Cable Authentication Label.

Anyone can use the HDMI smartphone scanning app to verify the cable's certification and product information.

Cables certified under this program ensure installations are ready for today's 4K120Hz/UltraHD environment, and are future-proofed for the performance needed when equipment is upgraded or replaced.







HDMI Cable Certification App

HDMI Cable Certification App enables consumers to authenticate HDMI products tagged with the HDMI Unique Label to get the assurance that they can fully enjoy the complete 4K120Hz / 8K60Hz / UltraHD experience when viewing 4K /8K content.

You can download the "HDMI Cable Certification APP" at: Google Play and in the Apple App Store For more information please visit www.HDMI.org







What is DisplayPort?

In late 2003 a group of leading PC, graphics and semiconductor companies got together to plan a new digital display interface standard to meet future demands on the interface and to reduce display cost and complexity. The goal was to develop an open standard based, royalty free and extensible interface suited for both external desktop monitor and internal display interfaces, and to have it ready for implementation in products in 2006.

This group was the start of the Video Electronics Standard Association (VESA) which is an international non-profit corporation that supports and sets industry wide interface standards for the PC, workstation and consumer electronics industries.

The new interface would replace the proprietary digital visual interface (DVI) used between the PC and an external display. This interface could not



be updated and had physical, functional and cost limitations that inhibited its suitability for future needs. The DisplayPort standard specifies a high bandwidth, bi-directional display interconnect that enables a common interface approach for internal and external display connectivity. The DisplayPort interface features optional audio capability.

This standard provides an open and extensible royalty free specification that meets the current and future needs of the PC industry without the restrictions associated with the other interfaces technology.

DisplayPort Versions

The first generation of DisplayPort provided over 10.8Gbps of raw bandwidth, which no other display interface could match. DisplayPort also supported very long non -active cables, optional latch designs for connectors and audio support. In addition, with DisplayPort spread spectrum clocking can be enabled to reduce EMI, and souce devices such as GPUs can operate in dual-mode.



The latter is valuable for it allows the same connector to transport TMDS signals to Support DVI and HDMI outputs using inexpensive level shifting adapters.

The data link rates of DisplayPort 1.1 are fixed at either 1.62Gbps per lane or 2.7Gbps per lane, irrespective of the timing of the attached display device. This design only requires a single reference clock source to drive as many DisplayPort streams as there are display pipelines in the GPU.

In contrast DVI and HDMI both require a dedicated clock source per display timing. This unique DisplayPort feature allows for the most efficient multi-display design and complements AMD Eyefinity multi display technology. In early 2010 the DisplayPort 1.2 specification was confirmed by VESA, this new revision of the standard adds support for new and exciting feature, including High Bit rate audio even higher bandwidth from 10.8Gbps to 21.6Gbps and multi stream capabilities.

In the last quarter of 2014 the DisplayPort 1.3 was approved which increased bandwidth to 32.4Gbps with the new HBR3 mode featuring 8.1Gbps per lane up from 5.4Gbps with HBR2 in version 1.2

In March 2016 the DisplayPort 1.4 was published, it still uses HBR3 mode but adds supports for Display Stream Compression 1.2 (DSC) and the next generation for DisplayPort will improve link rate from 8.1 to 10Gbps which will increase total bandwidth from 32.4 to 40 Gbps

Version 2.0

DisplayPort 2.0, which was introduced in June 2019, provides up to a 3X increase in data bandwidth performance compared to the previous version of DisplayPort, as well as new capabilities to address future performance requirements of displays. These include beyond-8K resolutions, higher refresh rates and high dynamic range (HDR) support at higher resolutions, improved support for multiple display configurations, as well as

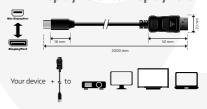
improved user experience with augmented/virtual (AR/VR) displays, including support for 4K-andbeyond VR resolutions. Featuring the highly efficient 128b/132b channel coding shared with USB4, DisplayPort 2.0 delivers a maximum payload of 77.37 Gbps across four lanes (up to 19.34 Gbps per lane)-supporting ultra-high display performance configurations such as an 8K (7680×4320) display with 60Hz refresh rate with full-color 30 bpp 4:4:4 HDR resolution uncompressed, and 16K (15360×8640) 60Hz display with 30 bpp 4:4:4 HDR resolution with compression. With the release of DisplayPort Alt Mode 2.0. all of these highperformance video capabilities are now available to the USB ecosystem.





DisplayPort, Mini DP and Thunderbolt Connectors

Mini DisplayPort™ to DisplayPort™







CABLE



CAC-1073 DisplayPort 1.2 Cable to HDMI 2.0 UHD 4K60Hz Active Adapter M/M 3m/9.84ft

The Club 3D is an active HDMI™ signal converter. The DisplayPort™ 1.2 to HDMI™ 2.0 Cable Active Adapter is the easiest solution for connecting your DisplayPort™ 1.2 enabled Game PC or Laptop to an HDMI™ 2.0 enabled 4K UHD Television, monitor or Projector. The adapter is fully compliant to HDMI™ 2.0 specification allowing for 6Gbps TMDS throughput per channel. The interface in the adapter has three lanes for HDMI data, clock, HPD signal and power, offering a total TMDS throughput of 18Gbps.

Features

- Compliant to DisplayPort™ Specification 1.2 for 1.62Gbps,2.7Gbps and 5.4Gbps per lane. Effective video bandwidth 17.28Gbps
- Compliant to HDMI™ Specification 2.0, data rate up to 6Gbps per TMDS channel. Total throughput 18Gbps
- · Supports full link training and no link training
- Repeater for HDCP 1.3 and HDCP 2.2
- Supports UHD resolutions up to 4096 x 2160p @ 60Hz, 8Bit BPC
- Supports 3D video support up to 1080p @120Hz
- Supports RGB up to 12 bpc,
 YCbCr4:4:4 -4:2:2 -4:2:0 up to 12 bpc
- · Supports AMD Eyefinity Feature



The Club3D CAC-1082 is a DisplayPort™ 1.4 Cable to HDMI™ 2.0b HDR converter. It features support for HDR Video quality for deep color media content playback. The DisplayPort™ receiver supports up to 5.4 Gbps per lane over 4 lanes. The HDMI™ output is fully compliant to HDMI™ specification version 2.0b.

Supports up to 4K UHD Resolutions

The CAC-1082 supports UHD resolutions up to 4096 x 2160p at 60Hz.

Color Formats

It supports RGB/YCbCr video color formats with a color depth of 16bpc (or 48 bits per pixel) as long as it fits within the DisplayPort™ and HDMI™ link bandwidth. The CAC-1082 also supports pixel encoding conversion from RGB or YCbCr 4:4:4 to YCbCr 4:2:0 and YCbCr 4:2:0 passtrough function. In addition HDR with deep color up to 12Bpc at 4K 60Hz is supported through the conversion of RGB/YCbCr 4:4:4 over DP link to YCbCr 4:2:0 on the HDMI™ output with a horizontal expansion to CEA timings.

Note: For HDR to function, the source system needs to support DisplayPort™ 1.4 and the screen needs to have support for HDR and / or HDMI™ 2.0 a or b.



- DisplayPort™ 1.4 Receiver, up to 5.4Gbps link Rate, HBR2/HBR/ RBR
- · Video Stream Handling
- Up to 600Mhz dual pixel path and 16bpc
- RGB/YCbCr 4:4:4/4:2:2/4:2:0 pixel format
- Horizontal expansion of Vesa CVT to CEA Timings (as per DP™ 1.4 spec)
- DisplayPort™ to HDMI™ Stereoscopic 3D Transport
- Frame Sequential to Stacked Top-Bottom Conversion
- Pass-trough of ther 3D Formats
- · Audio Stream Handling
- LPCM and compressed Audio encoding formats
- Max audio sample rate of 192 Khz x 8 Channel or 768 KHz x 2 Channel
- HDCP Support
- HDCP 1.3 to HDCP 1.4 Repeater function
- HDCP 2.2 to HDCP 1.4 and 2.2 Repeater Fucntion
- HDMI™ transmitter
- Compliant to HDMI™ specifications version 2.0b
- 600MHz max TMDS character clock
- High Daynamic Range (HDR) support both Static- and Dynamic HDR.
- CEC Support snooping, tunneling
- Max Video resolution and color depth on HDMI™ output
- 4K 60Hz RGB/YCbCr 4:4:4, 8bpc
- 4K 60Hz YCbCr 4:2:2, up to 12bpc
- 4K 60Hz YCbCr 4:2:0, up to 16bpc
- 4K 30Hz RGB/YCbCr 4:4:4, up to 16Bpc



CAC-1064 DisplayPort 1.2 Cable HBR2 M/M 3m/9.84ft

The DisplayPort™ Ver. 1.2 cable enables the connection of your DisplayPort™ supported Gaming PC or Laptop to an (Ultra) High Definition Monitor or other DisplayPort™ supported device. It features locking DisplayPort™ connectors providing a secure, reliable connection.

Simply press the built-in one-touch latch button to unlock the connector. The soft UltraFlex jacket protects the cable from bends and deformation that can damage it. Supports HBR2, total data throughput 21.6Gbps 4K UHD resolutions up to 3840x2160p @60Hz and 1080p Full HD 3D video.

- DisplayPort™ 1.2 compatible supports version 1.1a
- Supports resolutions up to 3840x2160@ 60Hz and 3D video
- Supports all (U)HDTV resolutions including 1080p and 4K UHD
- · Latching connectors for a secure, reliable connection
- Supports HBR2, up to 5.4 Gbps per lane throughput 21.6 Gbps total
- · Fully bidirectional







CAC-2067 DisplayPort 1.4 to DisplayPort 1.4 M/M 1m/3.28ft

The Club 3D DisplayPort™ 1.4 HBR3 cable enables the connection of your DisplayPort™ supported (Gaming) PC or Laptop to an (Ultra) High Resolution Monitor or other DisplayPort™ supported device.

DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32.

It features locking DisplayPort™ connectors providing a secure, dependable connection. Simply press the built-in one-touch latch button to unlock the connector. The soft UltraFlex jacket protects the cable from bends and deformation damage.

The Cable is 28AWG and fully Bi-Directional.

Features

- Fully DisplayPort™ Version 1.4 Compliant, HBR3, 32.4Gbps
- Support for Display Stream Compression (DSC) 1.2
- Support for Forward Error Correction
- Support for up to 32 Inline Audio Channels
- Downwards compatible to older DisplayPort standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- Without DSC1.2 max resolution supported up to: 5K @ 60Hz
- Certified by VESA



DisplayPort™1.4 HBR3 8K60Hz Cable CAC-2068 28 AWG M/M 3m/9.84ft

The Club 3D DisplayPort™1.4 HBR3 8K60Hz cable enables the connection of your DisplayPort™ supported (Gaming) PC or Laptop to an (Ultra) High Resolution

Monitor or other DisplayPort™ supported device. DisplayPort™1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32. It features locking DisplayPort™ connectors providing a secure, dependable connection. Simply press the built-in one-touch latch button to unlock the connector

The soft UltraFlex jacket protects the cable from bends and deformation damage.

Features

- Fully DisplayPort™1.4 Compliant, HBR3, 32.4Gbps, 28AWG
- Support for Display Stream Compression (DSC) 1.2
- . Support for Forward Error Correction (FEC)
- Support for up to 32 Inline Audio Channels
- Downwards compatible to older DisplayPort standards
- Support resolutions up to 8K60Hz
- Vesa Certified



DisplayPort 1.4 HBR3 8K 28AWG Cable CAC-1060 M/M 3m /9.84ft

The Club 3D DisplayPort™ 1.4 HBR3 8K cable enables the connection of your DisplayPort™ supported (Gaming) PC or Laptop to an (Ultra) High Resolution

Monitor or other DisplayPort™ supported device. DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32.

It features locking DisplayPort™ connectors providing a secure, dependable connection. Simply press the built-in one-touch latch button to unlock the connector. The soft UltraFlex jacket protects the cable from bends and deformation damage.

Features

- Fully DisplayPort™ 1.4 Compliant, HBR3, 32.4Gbps, 28AWG
- · Support for Display Stream Compression (DSC) 1.2
- · Support for Forward Error Correction
- Support for up to 32 Inline Audio Channels
- · Downwards compatible to older DisplayPort standards • Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- Without DSC1.2 max resolution supported up to: 5K @ 60Hz
- Vesa Certified



CAC-1061 DisplayPort 1.4 HBR3 8K Cable M/M 5m /16.40ft

The Club 3D DisplayPort™ 1.4 HBR3 8K cable enables the connection of your DisplayPort™ supported (Gaming) PC or Laptop to an (Ultra) High Resolution Monitor or other DisplayPort™ supported device.

DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32. It features locking DisplayPort™ connectors providing a secure, dependable connection. Simply press the built-in one-touch latch button to unlock the connector. The soft UltraFlex jacket protects the cable from bends and deformation damage.

- Fully DisplayPort™ 1.4 Compliant, HBR3, 32.4Gbps, 28AWG
- Gold plated
- Support for Display Stream Compression (DSC) 1.2
- Support for Forward Error Correction
- Support for up to 32 Inline Audio Channels
- Downwards compatible to older DisplayPort standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- Without DSC1.2 max resolution supported up to: 5K @ 60Hz
- Vesa Certified







CAC-1022 DisplayPort 1.4 HBR3 Extension Cable 8K60Hz M/F 2m/6.56ft

The Club 3D DisplayPort™ 1.4 HBR3 Male/Female, 2m/6.56ft. Cable enables the extension of your connection to your DisplayPort™ supported (Gaming) PC or Laptop to an (Ultra) High Resolution Monitor or other DisplayPort™ supported device. DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32.

It features locking DisplayPort™ connectors providing a secure, dependable connection. Simply press the built-in one-touch latch button to unlock the connector.

The soft UltraFlex jacket protects the cable from bends and deformation damage. The Cable is 28AWG and fully Bi-Directional.

Features

- Fully DisplayPort™ Version 1.4 Compliant, HBR3, 32.4Gbps
- Support for Display Stream Compression (DSC) 1.2
- · Support for Forward Error Correction
- Support for up to 32 Inline Audio Channels
- · Downwards compatible to older DisplayPort standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- The Cable is 28AWG and fully Bi-Directional



The Club 3D DisplayPort™ 1.4 HBR3 8K cable enables the connection of your DisplayPort™ supported (Gaming) PC or Laptop to an (Ultra) High Resolution Monitor or other DisplayPort™ supported device. DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of

It features locking DisplayPort™ connectors providing a secure, dependable connection. Simply press the built-in one-touch latch button to unlock the connector. The soft Ultra-Flex iacket protects the cable from bends and deformation damage.

Features

 Fully DisplayPort™ 1.4 Compliant, HBR3, 32.4Gbps, 24AWG

inline audio channels to 32.

- Support for Display Stream Compression (DSC) 1.2
- Support for Forward Error Correction
- Support for up to 32 Inline Audio Channels
- Downwards compatible to older DisplayPort standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- Without DSC1.2 max resolution supported up to: - 5K @ 60Hz
- · Gold Plated Connectors
- Vesa Certified





CAC-1079 DisplayPort 1.4 Active Optical Cable Unidirectional 4K120Hz 8K60Hz M/M 20m/65.62ft

The Club 3D CAC-1079 is an Active Optical Unidirectional DisplayPort™ Cable that allows support for 8.1Gbps per channel. It supports 4K at 120Hz resolution as well as 8K at 60Hz and HDR formats.

DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32.

This optical fiber cable can be applied to outdoor displays, LED signboards, home cinema displays, conference rooms, medical imaging equipment or security systems to transfer audio and video signals...

Features

This product has many features that enable it to perform in a superior manner. Among those features you will find:

- Support 4K at 120Hz or 8K at 60Hz and HDR formats Supports HBR3, HDCP1.4/2.2
- Supports DP1.4 standard with bandwidth of up to 8.1Gps per channel total bandwidth of 32.4Gbps Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- Without DSC1.2 max resolution supported up to: 5K @ 60Hz
- Support length of 20m/65.62ft*
- Maximum Pixel clock frequency is 810 Mhz
- OD 4.8 mm
- · Uni-directional Meaning Source and Display Only
- This cable is Hybrid which means it is downwards compatible to other DisplayPort™ versions
- · No external power supply is required
- · Plug and Play no driver software required
- * A maximum of 100m/328ft please contact Club 3D







CAC-1023 DisplayPort 1.4 Extension Cable 8K60Hz DSC 1.2 HBR3 HDR Bidirectional M/F 3m/9.84ft

The Club 3D DisplayPort™ 1.4 Extension Cable 8K60Hz DSC 1.2 HBR3 HDR Bidirectional Male/Female 3m/9.84ft 28AWG Cable enables the extension of your connection to your DisplayPort™ supported (Gaming) PC or Laptop to an (Ultra) High Resolution Monitor or other DisplayPort™ supported device. DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32.

It features locking DisplayPort™ connectors providing a secure, dependable connection. Simply press the built-in one-touch latch button to unlock the connector.

The soft UltraFlex jacket protects the cable from bends and deformation damage. The Cable is 28AWG and fully Bi-Directional.

Features

- Fully DisplayPort™ Version 1.4 Compliant, HBR3, 32.4Gbps
- Support for Display Stream Compression (DSC) 1.2
- · Support for Forward Error Correction
- Support for up to 32 Inline Audio Channels
- · Downwards compatible to older DisplayPort standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- . The Cable is 28AWG and fully Bi-Directional



CAC-1210 HDMI 1.4 to DVI Cable M/M 2m/ 6.56ft
Bidirectional

The Club 3D CAC-1210 is a HDMI[™] 1.4 to DVI Adapter Cable. Because this Adapter Cable is fully Bi-Directional, it can also be used as a HDMI[™] to DVI Adapter Cable.

This CAC-1210 Cable is the easiest solution for connecting your HDMI™ Monitor, Projector or Television to the DVI output of your PC / Notebook or to connect your DVI Monitor, Projector or Television to the HDMI™ output of your PC / Notebook / Game Console.

The CAC-1210 uses premium components and gold plated contacts to ensure the highest performance and maximum ease of use resulting in the best user experience with resolutions up to UHD / 3840 x 2160 @ 30Hz.

Features

- Compliant to HMDI™ 1.4 Specification
- Compliant to DVI-D D Dual Link specification
- Supports resolutions up to UHD / 3840 x 2160 @ 30Hz
- · Fully Bidirectional
- No external power needed
- Plug & Play



CAC-1211 HDMI 1.4 to DVI Cable M/F 2m/6.56ft
Bidirectional

The Club 3D CAC-1211 is a HDMI™ 1.4 to DVI Adapter Cable. Because this Adapter Cable is fully Bi-Directional, it can also be used as a HDMI™ to DVI Adapter Cable.

This CAC-1211 Cable is the easiest solution for connecting your HDMI™ Monitor, Projector or Television to the DVI output of your PC / Notebook or to connect your DVI Monitor, Projector or Television to the HDMI™ output of your PC / Notebook / Game Console.

The CAC-1211 uses premium components and gold plated contacts to ensure the highest performance and maximum ease of use resulting in the best user experience with resolutions up to UHD / 3840 x 2160 at 30 Hz.

Features

- Compliant to HMDI™ 1.4 Specification
- · Compliant to DVI-D Dual Link specification
- Supports resolutions up to UHD / 3840 x 2160 at 30 Hz.
- Fully Bidirectional
- · No external power needed
- Plug & Play



CAC-1320 High Speed HDMI 1.4 HD Extension Cable M/F 5m/16.40ft

This High Speed HDMI[™] 1.4 HD Extension Cable 5M/16.40ft Male/Female, enables you to extend your HDMI[™] interface of HDTV to any HD device with an HDMI[™] output like your Blu-Ray[™] Player, Xbox[™], PlayStation[™], Apple TV[™], Streaming Player, HD Cable Box or PC.

Nowadays we have many devices that we want to connect to our TV which makes this product a great solution because it creates flexibility for the placing of such devices

- High Quality High speed HDMI Extension cable with Ethernet, 30AWG
- Data transfer rate up to 10.2 Gbps
- Supports Dolby® TrueHD and DTS-HD Master Audio™ HDCP compliant
- Support resolutions up to 4K at 30Hz / Full HD at 60Hz and 3D
- Product is fully plug & play and does not require external power





CAC-1311 Premium High Speed HDMI™ 4K60Hz UHD Cable M/M 1 m / 3.28 ft 30AWG

The Club 3D Premium High Speed HDMI™ 4K60Hz UHD Cable enables the connection of your HDMI™ 2.0 supported Gaming PC or Laptop to an (Ultra) High Definition Monitor or other HDMI™ 2.0 supported device. It fully supports the 'Premium High Speed HDMI™ with Ethernet' specification, ensuring that video up to 4K UHD 3840x2160p at 60Hz is supported, as well as HDR, audio and data streams. The cable combines the unmatched signal quality and convenience of HDMI™ connectivity with the power and flexibility of home entertainment networking. It includes a dedicated data channel into the HDMI™ link, enabling high speed networking at up to 100 Mbps. It is the ideal solution for the ultimate future proof HDMI™ 4K UHD Gaming and Viewing experience.

Features

- . Compliant to Premium High Speed HDMI™ with Ethernet specification
- Professional quality cable 30 AWG
- Supports HDMI™ 2.0 specification
- Backwards compatible to support HDMI™ 1.4 specification
- · Fully Bi-Directional
- Supports (U)HDTV resolutions up to 3840x2160 @ 60Hz and HDR
- Supports 3D resolutions up to 1920x1080p Full HD @ 120Hz
- Total Data throughput of 18Gbps, three lanes, 6Gbps per lane



UHD Gaming and Viewing experience.

Features

- Compliant to Premium High Speed HDMI™ with Ethernet
- · Professional quality cable 30 AWG
- Supports HDMI™ 2.0 specification
- Backwards compatible to support HDMI™ 1.4 specification
- · Fully Bi-Directional
- Supports (U)HDTV resolutions up to 3840x2160 @ 60Hz and
- Supports 3D resolutions up to 1920x1080p Full HD @ 120Hz
- Total Data throughput of 18Gbps, three lanes, 6Gbps per lane



CAC-1360 HDMI 2.0 4K60Hz UHD 360 Degree Rotary cable 2m/6.56ft

The Club 3D HDMI™ 2.0 4K60Hz UHD 360° Rotary Cable can be twisted or turned to virtually any position. The Rotator connectors feature a center ball joint design that enables a 360 degree rotation and bending. The CAC-1360 design ensures signal integrity in any position and its flexibility makes it ideal for installations in tight/ narrow spaces where standard connectors are hard to fit without having to bend the cable at sharp angles.

It fully supports the HDMI™ 2.0 with Ethernet specification, ensuring that video up to 4K UHD, 4096x2160p at 60Hz is supported, as well as audio and data streams.

Features

- Compliant to HDMI™ with Ethernet specification version 2.0
- Features 360 Degree Rotating Connectors
- Supports UHD TV resolutions up to 4096x2160p @ 60Hz
- Supports 3D resolutions up to 1080p Full HD @ 120Hz
- Total Data throughput of 18Gbps, three lanes, 6Gbps per lane
- · Supports up to 32 audio channels for the total audio experience
- Supports up to 1536 KHz audio sample frequency for the highest audio fidelity



CAC-1321 High Speed HDMI 2.0 UHD Extension Cable M/F 3m/9.84ft

his High Speed HDMI™ 2.0 UHD HDR Extension Cable, enables you to extend your existing HDMI™ cable length by 3 Meters / 9.8 Feet. Nowadays we have many devices that we want to connect to your TV which makes this product a great solution because it creates flexibility for the placing of such devices.

This High Speed HDMI™ 2.0 UHD Extension Cable is fully compliant to HDMI 1.3 / 1.4 and 2.0 standard to ensure smooth transfer of you Video and Audio signals over the full length of this Extension Cable. In combination with this extension cable we advise to use HDMI Male/Male of 28AWG Quality up to 3 Meter, like the Club3D CAC-1310 HDMI™ 2.0 UHD Cable 3M/9.8.

- High Quality High speed HDMI™ 2.0 Extension cable, 30AWG
- . Compliant with HDMI™ 1.3 / 1.4 / 2.0 standard
- Data transfer rate up to 18 Gbps
- Support resolutions up to 4096x2160 60Hz HDR / 1920x1200 120Hz 3D *
- · Product is fully plug & play and does not require external power
- * Functionality is also dependent on the HDMI™ M/M cable used.

In combination with this CAC-1321 extension cable we advise to use HDMI Male/Male cable of 28AWG Quality up to 3 Meter, like the Club3D CAC-1310 Premuim HDMI™ 2.0 UHD Cable 3M/9.8Ft.







CAC-1325 High Speed HDMI™ Extension Cable 4K60Hz M/F 5m/16.4ft 26 AWG

The Club 3D CAC-1325 High Speed HDMI™ Extension Cable, 4K60Hz UHD enables you to extend your existing HDMI™ cable length by 5 meters / 16.4 Feet. Nowadays we have many devices that we want to connect to our TV which makes this product a great solution because it creates flexibility for the placing of such devices.

This High Speed HDMI™ 4K60Hz UHD Extension Cable is fully compliant to HDMI™ 1.3 / 1.4 and 2.0 standard to ensure smooth transfer of your Video and Audio signals over the full length of this Extension Cable.

Features

- High Quality High speed HDMI™ Extension cable, 26 AWG.
- Compliant with HDMI™ 1.3 / 1.4 / 2.0 standard
- Data transfer rate up to 18 Gbps.
- Support resolutions up to 4096x2160@60Hz HDR / 1920x1200@120Hz 3D. *
- Product is fully plug & play and does not require external power.
- * Functionality is also dependent on the HDMI** M/M cable used. In combination with this CAC-1325 extension cable we advise to use HDMI Male/Male cable of 28AWG Quality, like the Club 3D CAC-1370/CAC-1371/CAC-1372 and/or CAC-1373



CAC-2312 HDMI 2.0 4K60Hz UHD cable 5m/16.40ft

The Club 3D HDMI™ 2.0 4K60Hz UHD Cable enables the connection of your HDMI™ supported Gaming PC or Laptop to an (Ultra) High Definition Monitor or other HDMI™ supported device. It fully supports the HDMI™ with Ethernet specification, ensuring that video up to 4K UHD, 4096x2160p at 60Hz is supported, as well as HDR, audio and data streams. The 5 meter/16.40 feet cable combines the unmatched signal quality and convenience of HDMI™ connectivity with the power and flexibility of home entertainment networking, It includes a dedicated data channel into the HDMI™ link, enabling high speed networking at up to 100 Mbps. It is the ideal solution for the ultimate future proof HDMI™ 4K UHD Gaming and Viewing experience.

Features

- Compliant to HDMI™ with Ethernet specification version 2.0
- Professional quality braided cable with Metal connector head
- · Gold plated connectors for maximum conductivity
- Supports UHD TV resolutions up to 4096x2160p @ 60Hz and HDR
- Supports 3D resolutions up to 1080p Full HD @ 120Hz
- Total Data throughput of 18Gbps, three lanes, 6Gbps per lane
- Supports up to 32 audio channels for the total audio experience
- Supports up to 1536 KHz audio sample frequency for the highest audio fidelity
- Fully Bi-Directional

This Club 3D HDMI" * cable is also suitable for: Xbox One, Xbox One S, Xbox 360, PlayStation 4, PS3, Nintendo Switch

* Please check your TV/monitor user-manual for its required specifications and maximum resolutions.



CAC-2313 HDMI 2.0 4K60Hz RedMere cable 10m/32.81ft

The Club 3D HDMI™ 4K60Hz UHD RedMere® Cable enables the connection of your HDMI™ supported Gaming PC or Laptop to an Ultra High Definition Monitor or other HDMI™ supported device.

Although the cable is 10 meters / 32.81 feet long, it fully supports the HDMI** 2.0 with Ethernet specification, ensuring that video up to 4K UHD, 4096x2160p at 60Hz and HDR is supported, as well as audio and data streams.

Features

- Compliant to HDMI™ 2.0 with Ethernet specification
- Professional quality braided cable with Metal connector head
- Gold plated connectors for maximum conductivity
- Supports UHD TV resolutions up to 4096x2160p @ 60Hz and HDR
- Supports 3D resolutions up to 1080p Full HD @ 120Hz
- Total Data throughput of 18Gbps, three lanes, 6Gbps per lane
- Supports up to 32 audio channels for the total audio experience
- Supports up to 1536 KHz audio sample frequency for the highest
- Contains Active Chips with in-cable equalisation technology
- The CAC-2313 cable is unidirectional

This Club 3D HDMI™* cable is also suitable for: Xbox One, Xbox One S, Xbox 360, PlayStation 4, PS3, Nintendo Switch

* Please check your TV/monitor user-manual for its required specifications and maximum resolutions.



CAC-2314 HDMI 2.0 4K60Hz RedMere cable 15m/49.21ft

The Club 3D HDMI™ 2.0 4K60Hz UHD RedMere® Cable enables the connection of your HDMI™ supported Gaming PC or Laptop to an (Ultra) High Definition Monitor or other HDMI™ supported device. Although the cable is 15 meters / 49.21 feet long, it fully supports the HDMI™ 2.0 with Ethernet specification, ensuring that video up to 4K UHD, 4096x2160p at 60Hz and HDR is supported, as well as audio(including ARC) and data streams. RedMere® Technology Contains Active Chips with HDMI™ in-cable equalisation technology, with advanced signal processing allowing to support wide band data across relative thin and long cables while maintaining compatibility with the next generation of HDMI™ 2.0 devices. Because of the active receiver and transmitter inside this cable it is unidirectional.

Features

- Compliant to HDMI™ with Ethernet specification version 2.0
- · Professional quality braided cable with Metal connector head
- · Gold plated connectors for maximum conductivity
- Supports UHD TV resolutions up to 4096x2160p @ 60Hz and HDR
- Supports 3D resolutions up to 1080p Full HD @ 120Hz
- Total Data throughput of 18Gbps, three lanes, 6Gbps per lane
- Supports up to 32 audio channels for the total audio experience
- Supports up to 1536 KHz audio sample frequency for the highest audio fidelity.
- Contains Active Chips with in-cable equalisation technology
- The CAC-2314 cable is unidirectional

This Club 3D HDMI" * cable is also suitable for: Xbox One, Xbox One S, Xbox 360, PlayStation 4, PS3, Nintendo Switch

* Please check your TV/monitor user-manual for its required specifications and maximum resolutions.







CAC-1371 Ultra High Speed HDMI 4K120Hz, 8K60Hz Certified Cable 48Gbps M/M 1 m/3.28 ft

CAC-1370 Ultra High Speed HDMI 4K120Hz, 8K60Hz Certified Cable 48Gbps M/M 1.5 m/4.92 ft

CAC-1372 Ultra High Speed HDMI 4K120Hz, 8K60Hz Certified Cable 48Gbps M/M 2 m / 6.56 ft

CAC-1373 Ultra High Speed HDMI 4K120Hz, 8K60Hz Cable 48Gbps M/M 3 m/ 9.84ft The Club CAC-1370, CAC-1371, CAC-1372, and the CAC-1373 3D Ultra High Speed HDMI"2.1 Certified Cable is built to handle the highest quality video- and audio- signals.

HDMI™2.1 Increased Bandwidth to 48Gbps.

The increase in maximum bandwidth compared to previous versions is achieved by increasing both the bitrate of the data channels (from 6Gbps to 12Gbps) and the number of channels (from 3 to 4). This allows support for resolutions up to supports 10K at 120Hz! New feature included in this Specification is Display Stream Compression (DSC) 1.2, this is used for video formats higher than 8K with 4:2:0.

Enhanced refresh rate features:

- Variable Refresh Rate (VRR) reduces or eliminates lag, stutter and frame tearing for more fluid motion in games
- Quick Media Switching (QMS) for movies and video eliminates the delay that can result in blank screens before content is displayed
- Quick Frame Transport (QFT) reduces latency.
- HDMI™2.1 also supports Static- and Dynamic- HDR metadata.

All HDMI™2.1 features are fully supported by this Club3D CAC-1370 Cable. It is the ideal solution for the ultimate future proof HDMI™2.1 experience.

Features

- Fully Compliant to the Ultra High Speed HDMI™2.1 Certified specification
- · Professional quality cable
- I nw FMI emission
- · Gold plated connectors for maximum conductivity and 28 AWG
- · Enhanced gaming and media features
- Color space BT.2020 with 10bits,12bits,16bits
- Backwards compatible to earlier HDMI™ versions
- Supports Display Stream Compression (DSC) 1.2
- Supports (U)HD resolutions up to 4K120Hz (with DSC 1.2) or 8K60Hz
- Supports Enhanced Audio Return Channel (eARC)
- Supports Static- and Dynamic- HDR Metadata
- Support for VRR, QMS, QFT and Auto Low Latency Mode

This Club 3D HDMI** cable is also suitable for: Xbox Series X, Xbox Series S, PlayStation 5, Nvidia RTX 3000 series, AMD Radeon RX 6800 series. * Please check your TV/monitor user-manual for its required specifications and maximum resolutions.



Ultra High Speed HDMI Certified Cable

CAC-1371 M/M1m/3.28 ft CAC-1370 M/M1.5 m/4.92 ft

CAC-1372 M/M 2 m / 6.56 ft CAC-1373 M/M 3 m / 9.84ft



Premium High Speed HDMI Certified Cable

CAC-1311 M/M1m/3.28 ft **CAC-1310** M/M3m/9.84ft

How to Identify an Ultra High Speed HDMI® Cable









CAC-1350 Mini HDMI to HDMI 2.0 Cable M/M 1m/3.28ft

The Club 3D CAC-1350 Mini HDMI™ to HDMI™ 2.0 Cable delivers an UHD resolution signal for clear, natural pictures and sound. It enables you to connect your Digital Camera/Camcorder, Mini PC, Pico Projector or other device with Mini HDMI™ output to a **4K UHD TV**, monitor or projector with HDMI™ input. It fully supports the Premium High Speed HDMI™ with Ethernet specification, ensuring that video up to **4K UHD 3840x2160p** at **60Hz** is supported, as well as HDR, audio and data streams.

The Mini HDMI™ to HDMI™ 2.0 Cables are premium quality making them ideal for use with (Semi) Professional equipment supporting Ultra High Definition Resolutions.

Features

- Fully compatible with HDMI™ 2.0 Standard
- Backwards compatible with earlier HDMI™ versions
- . Compliant to Premium High Speed HDMI™
- Video Resolutions Support 4K at 60Hz HDR
- Supports 3D video resolutions up to 1920x1080 full HD at 120Hz
- Total Data throughput of 18Gbps, three lanes, 6Gbps per lane
- Plug & Play and fully Bi-Directional



CAC-1351 Micro HDMI to HDMI 2.0 4K60Hz Cable M/M 1m/3.28ft

The Club 3D CAC-1351 Micro HDMI™ to HDMI™ 2.0 Cable delivers an UHD resolution signal for clear, natural pictures and sound. It enables you to connect your Digital Camera/Camcorder, Mini PC, Pico Projector or other device with Micro HDMI™ output to a 4K UHD TV, monitor or projector with HDMI™ input. It fully supports the Premium High Speed HDMI™ with Ethernet' specification, ensuring that video up to 4K UHD 3840x2160p at 60Hz is supported, as well as HDR, audio and data streams.

The cable combines the unmatched signal quality and convenience of HDMI" connectivity with the power and flexibility of home entertainment networking. The Micro HDMI" to HDMI" 2.0 Cables are premium quality making them ideal for use with (Semi) Professional equipment supporting Ultra High Definition Resolutions.

Features

- . Fully compatible with HDMI™ 2.0 Standard
- Backwards compatible with earlier HDMI™ versions
- Compliant to Premium High Speed HDMI™ with Ethernet specification
- Video Resolutions Support 4K at 60Hz HDR
- Supports 3D video resolutions up to 1920x1080 full HD at 120Hz
- Total Data throughput of 18Gbps, three lanes, 6Gbps per lane
- Plug & Play and fully Bi-Directional



CAC-1376 HDMI AOC Cable 4K120Hz 8K60Hz Unidirectional M/M 10m/32.8 ft

The Club 3D CAC-1376 HDMI[™] Active Optical Cable, allows you to connect your favourite Display over a distance of 10m / 32.80ft.

HDMI™ Increased Bandwidth to 48Gbps.

The increase in maximum bandwidth compared to previous versions is achieved by increasing both the bitrate of the data channels (from 6Gbps to 12Gbps) and the number of channels (from 3 to 4). This allows support for resolutions up to supports 4K at 120Hz or 8K60Hz! New feature included in the Specification is Display Stream Compression (DSC) 1.2, this is used for video formats higher than 8K with 4:2:0.

Enhanced refresh rate features:

- Variable Refresh Rate (VRR) reduces or eliminates lag, stutter and frame tearing for more fluid motion in games
- Quick Media Switching (QMS) for movies and video eliminates the delay that can result in blank screens before content is displayed
- Quick Frame Transport (QFT) reduces latency. HDMI™ also supports Static- and Dynamic HDR metadata.

Features

- Fully Compliant to Ultra High Speed HDMI™ specification
- · Professional quality cable
- This cable is Uni Directional because its an Active Cable.
- Backwards compatible to earlier HDMI™ versions
- Supports Display Stream Compression (DSC) 1.2
- Supports (U)HD resolutions up to 4K @ 120Hz or 8K60Hz (with DSC 1.2)
- Supports Enhanced Audio Return Channel (eARC)
- Supports Static- and Dynamic HDR Metadata
- . Support for VRR, QMS, QFT and Auto Low Latency Mode

In order to achieve these resolutions / refresh rates, Please update your:

- TV Firmware to the version which supports these resolutions/ refresh rates!
- Graphic drivers on your PC and make sure that DSC1.2 is supported on your devices to support these resolutions/refresh rates!

This Club 3D HDMI* * cable is also suitable for: Xbox Series X, Xbox Series S, PlayStation 5, Nvidia RTX 3000 series, AMD Radeon RX 6800 series. * Please check your TV/monitor user-manual for its required specifications and maximum resolutions.







CAC-1379 HDMI AOC Cable 4K120Hz 8K60Hz M/M 20m/65.6 ft

The Club 3D CAC-1379 HDMI™ Active Optical Cable, allows you to connect your favourite Display over a distance of 20 m / 65.62 ft. Nowadays we have many devices that we want to connect to our TV or projector which makes this product a great solution because it creates flexibility for the placing of such devices. This Ultra High Speed HDMI™ 4K120Hz UHD 8K60Hz Cable is fully compliant to HDMI™ 2.1 standard to ensure smooth transfer of your Video and Audio signals over the full length of this Extension Cable.

This Club 3D HDMI* cable is also suitable for: Xbox Series X, Xbox Series S, PlayStation 5, Nvidia RTX 3000 series, AMD Radeon RX 6800 series. * Please check your TV/monitor user-manual for its required specifications and maximum resolutions.

Features

- High Quality Ultra High speed HDMI™ cable
- . Compliant with HDMI™ 2.1 standard
- · Data transfer rate up to 48 Gbps.
- Support resolutions up to 3840x2160@120Hz / 1920x1200@120Hz 3D.
- · Product is fully plug & play and does not require external power.

In order to achieve these resolutions / refresh rates.
Please update your:

- TV Firmware to the version which supports these resolutions/ refresh rates!
- Graphic drivers on your PC and make sure that DSC1.2 is supported on your devices to support these resolutions/refresh rates!



CAC-1390 HDMI 2.0 UHD Active Optical Cable HDR 4K 60Hz M/M 30m/98.42ft
CAC-1391 HDMI 2.0 UHD Active Optical Cable HDR 4K 60Hz M/M 50m/164,04ft



Active Optical Cable features both fiber- and copper conductors, providing a lighter, more flexible cable construction, which makes it ideal for installation in narrow spaces and over longer distances. The perfect solution for conference rooms, classrooms, digital signage displays, and more.

The Club 3D CAC-1390 and CAC-1391 HDMI™ 2.0 Hybrid

This CAC-1390 features a built-in booster circuit that is self-powered through the HDMI ports, allowing you to connect your HDMI-enabled devices at a distance of up to 30 meters with no signal loss.

The cable is Halogen Free, and produced according to the International Electrochemical Commission's Restriction Use of Halogen (IEC 61249-2-21) directive. This cable features unidirectional architecture, which requires that the cable is installed in the correct direction.

Please refer to the source and display labels on the HDMI™ connectors, in order to ensure that the cable is connected properly.

This Club 3D HDMI^{**} cable is also suitable for: Xbox Series X, Xbox Series S, PlayStation S, Nvidia RTX 3000 series, AMD Radeon RX 6800 series. ** Please check your TV/monitor user-manual for its required specifications and maximum resolutions.

Features

- Compliant to HDMI™ specification version 2.0b (600Mhz Clock Frequency)
- · Gold plated connectors for maximum conductivity
- Supports UHD TV resolutions up to 4096x2160p @ 60Hz
- Supports 3D resolutions up to 1080p Full HD @ 120Hz
- Total Data bandwidth of 18Gbps
- Supports Dolby® True HD, DTS-HD Master Audio up to 32 audio channels
- · Halogen Free and without EMI/RFI emission
- Support for HDR/HDCP/EDID/CEC/DDC
- Plug and Play, no driver software required
- · Unidirectional meaning Source and Display only
- This cable is Hybrid which makes it downwards compatible to other HDMI versions



CAC-1173 MiniDisplayPort 1.2 Cable to HDMI 2.0 UHD 4K60Hz Active Adapter M/M 3m/9.84Ft

The Club 3D CAC-1173 is an active HDMI™ signal converter. The Mini DisplayPort™ 1.2 to HDMI™ 2.0 Cable Active Adapter is the easiest solution for connecting your Mini DisplayPort™ 1.2 enabled Game PC or Laptop to an HDMI™ 2.0 enabled 4K UHD Television, monitor or Projector. The adapter is fully compliant to HDMI™ 2.0 specification allowing for 6Gbps TMDS throughput per channel. The interface in the adapter has three lanes for HDMI data, clock, HPD signal and power, offering a total TMDS throughput of 18Gbps..

- Compliant to DisplayPort™ Specification 1.2 for 1.62Gbps,2.7Gbps and 5.4Gbps per lane. Effective video bandwidth 17.28Gbps
- Compliant to HDMI™ Specification 2.0, data rate up to 6Gbps per TMDS channel. Total throughput 18Gbps
- . Supports full link training and no link training
- Repeater for HDCP 1.3 and HDCP 2.2
- Supports UHD resolutions up to 4096 x 2160p @ 60Hz, 8Bit BPC
- Supports 3D video support up to 1080p @120Hz
- Supports RGB up to 12 bpc, YCbCr -4:2:2 -4:2:0 up to 12 bpc
- Supports AMD Evefinity Feature







CAC-1404 USB 3.2 Gen1 Active Repeater Cable 5m/ 16.4 ft M/F 28AWG

With this Club3D USB 3.2 Gen1 Active Repeater Cable CAC-1404, you can go far beyond the standard USB Cable length limitation of 3 meters /9.84 feet, without loss of Data Transfer Speed. The USB 3.2 Gen1 Active Repeater Cables are fully Plug & Play and do not require any driver installation. Just connect your external USB device like External HDD/NAS/Digital Camera or External USB Graphics to your system with the CAC-1404 and have flexibility of the increased 5 meters /16.4 feet of extra cable length. Also for a VR experience at the sofa away from the notebook or PC this cable provides you with the freedom of movement.

The CAC-1404 supports data transfer rates up to 5Gbps over the full length of the cable.

As an option, for powering the repeater, we offer our CAC-1408, an USB Type A to Micro USB M/M cable of 1 meter/16.4ft, please order seperatly.

Features

- USB 3.2 Gen1 SuperSpeed specification
- Supports data transfer speeds up to 5 Gbps
- · Plug and play functionality
- Can be powered externally with our CAC-1408*
- No drivers required
- Cable: 28AWG, OD: 5.5mm
- Windows™ and Mac OSX™ compatible
- * A Micro USB cable for external power is not included. We advice the Club 3D CAC-1408: USB A to Micro USB cable of 1m / 3.28 ft. To be ordered additionaly.



CAC-1405 USB 3.2 Gen1 Active Repeater Cable 10m / 32.8ft M/F 28AWG

With this Club3D USB 3.2 Gen1 Active Repeater Cable CAC-1405, you can go far beyond the standard USB Cable length limitation of 3 meters /9.84 feet, without loss of Data Transfer Speed. The USB 3.2 Gen1 Active Repeater Cables are fully Plug & Play and do not require any driver installation. Just connect your external USB device like External HDD/NAS/Digital Camera or External USB Graphics to your system with the CAC-1405 and have flexibility of the increased 10 meters of extra cable length. Also for a VR experience at the sofa away from the notebook or PC this cable provides you with the freedom of movement.

The CAC-1405 supports data transfer rates up to 5Gbps over the full length of the cable.

For powering the repeater, we included our **CAC-1408**, an USB Type A to Micro USB M/M cable of 1m/3.28ft. You have the flexibility to power the CAC-1405 on the repeater or at the end with the provided CAC-1408.

Features

- USB 3.2 Gen1 SuperSpeed specification
- Supports data transfer speeds up to 5 Gbps
- · Plug and play functionality
- · External power can be applied to each of the repeaters
- No drivers required
- · Cable: 28AWG, OD: 5.5mm
- Windows™ and Mac OSX™ compatible



CAC-1406 USB 3.2 Gen1 Active Repeater Cable 15m/ 49.2 ft M/F 28AWG

With this Club3D USB 3.2 Gen1 Active Repeater Cable CAC-1406, you can go far beyond the standard USB Cable length limitation of 3 meters /9.84 feet, without loss of Data Transfer Speed. The USB 3.2 Gen1 Active Repeater Cables are fully Plug & Play and do not require any driver installation. Just connect your external USB device like External HDD/NAS/Digital Camera or External USB Graphics to your system with the CAC-1406 and have flexibility of the increased 15 meters / 49.2 feet of extra cable length. Also for a VR experience at the sofa away from the notebook or PC this cable provides you with the freedom of movement.

The CAC-1406 supports data transfer rates up to 5Gbps over the full length of the cable.

For powering the repeater, we included our **CAC-1408**, an USB Type A to Micro USB M/M cable of 1m/3.28ft. You have the flexibility to power the CAC-1406 on each of the repeaters or at the end with the provided CAC-1408.

- USB 3.2 Gen1 SuperSpeed specification
- · Supports data transfer speeds up to 5 Gbps
- · Plug and play functionality
- · External power can be applied to each of the repeaters
- No drivers required
- · Cable: 28AWG, OD: 5.5mm
- Windows[™] and Mac OSX[™] compatible









* Optional Micro USB: for External Power You have the flexibility to power the cable on each of the repeaters or at the end.

We advice our **CAC-1408**, an USB Type A to Micro USB M/M cable of 1 meter/16.4ft.



CAC-1408 USB 3.2 Gen1 Type-A to Micro USB Cable M/M 1m /3.28ft

CAC-1408 - The Club 3D USB 3.2 Gen1 Type-A to Micro USB Cable enables the connection of your existing USB Type A output connections, Laptops, tablets and Ultrabooks, Power Chargers, etc. to Micro USB inputs, like camera's, Phones and our range of extension cables and adapters.

The cable is backwards compatible and supports USB 3.0 and USB 2.0 as well. The USB 3.2 Gen1 specification ensures a bitrate of 5Gbps for transfer of large files.

Features:

- Connect USB type A to Micro USB enabled devices
- USB3.2 Gen1 data transfer rates up to 5Gbps when used with USB 3.2 Gen1 host and device
- Backwards compatible to support USB 3.0 and USB 2.0 specification.
- This cable is Uni-directional
- · Supports both data and power
- · Maximum Power output (PD profile 1) up to 2.4A



CAC-1411 USB 3.2 Gen2 Type A Extension Cable 10Gbps M/F 5m/16.40ft

The Club 3D CAC-1411 is an USB Type A extension cable for extending and enhancing USB Signal up to 5m / 16.4 ft. It is compatible with USB 3.2 Gen 2 with a maximum of 10Gbps data transmission. Its downward compatible with lower versions, please note that specifications will be limited to the device connected.

Features

- USB Type A Male 1 Connector (Connect USB A to Host , PC or mobile device) and USB A Female 1 Connector (Connect to USB Device)
- Compatible with USB 3.2 Gen2 with a maximum of 10Gbps data transmission, downward compatible with lower versions (USB 3.1/USB3.0/USB2.0)
- Support a maximum of 5 meters or 16.40 feet distance
- · Supports a maximum of 900mA downstream charging
- USB Bus Powered no external power required
- · Uni-Directional from Male to Female only

NOTE: To achieve a maximum of 10Gbps bandwidth, both the USB Host and the USB Device must support 10Gbps of data transmission







CAC-1182 Mini DisplayPort** 1.4 Cable to HDMI**
2.0b HDR Active Adapter Male/Male
2m/6.56 ft.

The Club 3D CAC-1182 is a Mini DisplayPort™ 1.4 to HDMI™ 2.0b signal converter cable. It features support for HDR Video quality for deep color media content playback. The DisplayPort™ receiver supports up to 5.4 Gbps per lane over 4 lanes. The HDMI™ output is fully compliant to HDMI™ specification version 2.0b.

Supports up to 4K UHD Resolutions

The CAC-1182 supports UHD resolutions up to 4096 x 2160p at 60Hz.

Features

- DisplayPort™ 1.4 Receiver, up to 5.4Gbps link Rate, HBR2/HBR/ RBR • Video Stream Handling
- Up to 600Mhz dual pixel path and 16bpc
- RGB/YCbCr 4:2:2/4:2:0 pixel format
- Horizontal expansion of Vesa CVT to CEA Timings (as per DPTM 1.4 spec)
- DisplayPort™ to HDMI™ Stereoscopic 3D Transport
- Frame Sequential to Stacked Top-Bottom Conversion Passtrough of ther 3D Formats

- · Audio Stream Handling
- LPCM and compressed Audio encoding formats
- Max audio sample rate of 192 Khz x 8 Channel or 768 KHz x 2 Channel
- · HDCP Support
- HDCP 1.3 to HDCP 1.4 Repeater function
- HDCP 2.2 to HDCP 1.4 and 2.2 Repeater Fucntion
- HDMI™ transmitter
- Compliant to HDMI™ specifications version 2.0b
- 600MHz max TMDS character clock
- High Daynamic Range (HDR) support both Static- and Dynamic HDR. - CEC Support - snooping, tunneling
- Max Video resolution and color depth on HDMI™ output 4K 60Hz YCbCr 4:2:2, up to 12bpc
- 4K 60Hz YCbCr 4:2:0, up to 12bpc
- 4K 30Hz RGB/YCbCr 4:2:2, up to 12bpc



CAC-2163 Mini DisplayPort to DisplayPort 1.2 M/M 2m/6.56ft

The Club 3D Mini DisplayPort™ to DisplayPort™ 1.2 cable enables the connection of your Mini DisplayPort™ supported source device to a monitor or other DisplayPort™ supported device.

It features a locking DisplayPort connector providing a secure, dependable connection. Simply press the built-in one- touch latch button to unlock the connector.

The Cable is 30AWG and fully Bi-Directional. The soft UltraFlex jacket protects the cable from bends and deformation damage.

Features

- DisplayPort™ 1.2a compatible supports version 1.1a
- Bi-directional
- Supports monitor resolutions up to 3840x2160 @ 60Hz and 3D video
- Supports all (U)HD TV resolutions including 1080p FHD and 4K UHD
- · Latching connector for a secure, reliable connection
- Supports HBR2; up to 5.4 Gbps per lane throughput 21.6 Gbps total



CAC-2161 Mini DisplayPort 1.2 HBR2 Cable M/M 2m/6.56ft

The Club 3D Mini DisplayPort™ cable enables the connection of your Mini DisplayPort™ supported (Gaming) PC or Laptop to an Ultra High Resolution Monitor or other Mini DisplayPort™ supported device.

The Club 3D CAC-2161 is fully compatible to Displayport™ 1.2 specifications and is downwards compatible to earlier versions.

The soft UltraFlex jacket protects the cable from bending- and deformation damage.

- Compliant to DisplayPort™ 1.2a specifications
- · Downwards compatible to earlier versions
- \bullet Supports monitor resolutions up to 4096x2160 @ 60Hz and 3D video
- Supports all UHD TV resolutions including 1080p FHD and 4K UHD
- Supports HBR2; up to 5.4 Gbps per lane 21.6 Gbps total





CAC-1164 MiniDisplayPort 1.4 HBR3 Cable M/M 2m/6.56 Ft.

The Club 3D Mini DisplayPort™ 1.4 HBR3 cable enables the connection of your Mini DisplayPort™ supported (Gaming) PC or Laptop to an (Ultra) High Resolution Monitor or other Mini DisplayPort™ supported device. Mini DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32.

The soft UltraFlex jacket protects the cable from bends and deformation damage.

Features

- Fully DisplayPort™ Version 1.4 Compliant, HBR3, 32.4Gbps
- Support for Display Stream Compression (DSC) 1.2
- Support for Forward Error Correction
- · Support for up to 32 Inline Audio Channels
- Downwards compatible to older Displayport standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz



CAC-1115 MiniDisplayPort to DisplayPort 1.4 HBR3 Cable M/M 2m/6.56feet

The Club 3D Mini DisplayPort™ to DisplayPort™14 HBR3 cable enables the connection of your Mini DisplayPort™ supported source device to a monitor or other DisplayPort™ supported device. It features a locking DisplayPort connector providing a secure, dependable connection. Simply press the built-in one- touch latch button to unlock the connector.

The soft UltraFlex jacket protects the cable from bends and deformation damage.

This professional grade cable is ceritfied by Vesa.

Features

- Fully DisplayPort™ Version 1.4 Compliant, HBR3, 32.4Gbps
- Support for Display Stream Compression (DSC) 1.2
- · Support for Forward Error Correction
- Support for up to 32 Inline Audio Channels
- Downwards compatible to older Displayport standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- Bi-Directional
- Vesa Certified



CAC-1120 Mini DisplayPort 1.4 to DisplayPort
Extension Cable 8K60Hz DSC 1.2 HBR3
HDR Bidirectional F/M 1m/3.28ft

Club 3D Mini DisplayPort™ to DisplayPort™ 1.4 Extension Cable 8K60Hz DSC1.2 HBR3 HDR enables the connection of your Mini DisplayPort™ supported (Gaming) PC or Laptop to any standard Displayport cable to extend the distance to your DisplayPort™ supported Television, Monitor, Projector or other DisplayPort™ supported device. DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32.

It features locking DisplayPort™ connectors providing a secure, dependable connection. Simply press the built-in one-touch latch button to unlock the connector.

The soft UltraFlex jacket protects the cable from bends and deformation damage. The Cable is 32AWG and fully Bi-Directional.

Features

- Fully DisplayPort™ Version 1.4 Compliant, HBR3, HDR 32.4Gbps
- Support for Display Stream Compression (DSC) 1.2
- Support for Forward Error Correction (FEC)
- Support for up to 32 Inline Audio Channels
- Downwards compatible to older DisplayPort standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- and hour resolutions ab to over a on 15 and 44 e 1441
- The Cable is 32AWG and fully Bi-Direction



CAC-1121 Mini DisplayPort to DisplayPort1.4 Extension Cable 8K60Hz DSC1.2 HBR3 HDR M/F 1m/3.28 ft

Club 3D Mini DisplayPort™ to DisplayPort™ 1.4 Extension Cable 8K60Hz DSC1.2 HBR3 HDR enables the connection of your Mini DisplayPort™ supported (Gaming) PC or Laptop to any standard DisplayPort cable to extend the distance to your DisplayPort™ supported Television, Monitor, Projector or other DisplayPort™ supported device. DisplayPort™ 1.4 adds support for Display Stream Compression 1.2 (DSC), Forward Error Correction, and extends the maximum number of inline audio channels to 32.

The soft UltraFlex jacket protects the cable from bends and deformation damage. The Cable is 32AWG and fully Bi-Directional.

- Fully DisplayPort™ Version 1.4 Compliant, HBR3, HDR 32.4Gbps •
 Support for Display Stream Compression (DSC) 1.2
- · Support for Forward Error Correction
- Support for up to 32 Inline Audio Channels
- Downwards compatible to older DisplayPort standards
- Support resolutions up to 8K @ 60Hz and 4K @ 144Hz
- . The Cable is 32AWG and fully Bi-Directional







CAC-1220 DVI-D Dual Link (24+1) Cable
Bidirectional M/M 10m/32.8ft 28AWG

The Club 3D CAC-1220 is a DVI-D(24+1) Male to DVI-D(24+1) Male Cable. This cable is fully Bidirectional. This CAC-1220 Cable is the easiest solution for connecting your DVI-D Monitor, Projector or Television to the DVI-D output of your PC / Note-book / Game Console.

The CAC-1220 uses premium components and gold plated contacts to ensure the highest performance and maximum ease of use resulting in the best user experience with resolutions up to 2560 × 1600 (WQXGA)@ 60 Hz or 1920 x 1080 @ 120Hz, provided your graphic card and your monitor supports these resolutions. Please use one of our

Features

- Compliant to DVI-D Dual Link specification
- Supports resolutions up to 2560 × 1600 (WQXGA)@ 60 Hz or 1920 x 1080 @ 120Hz
- Fully Bidirectional
- No external power needed
- Plug & Play



CAC-1223 DVI-D DualLink(24+1)M/MCable3m
Bidirectional28AWG

The Club 3D CAC-1223 is a DVI-D(24+1) Male to DVI-D(24+1) Male Ca- ble. This cable is fully Bidirectional. This CAC-1223 Cable is the easiest solution for connecting your DVI-D Monitor, Projector or Television to the DVI-D output of your PC / Notebook / Game Console.

All The CAC-1223 uses premium components and gold plated contacts to ensure the highest performance and maximum ease of use result- ing in the best user experience with resolutions up to $2560 \times 1600 \text{ (WQXGA)} @ 60$ Hz or $1920 \times 1080 @ 120\text{Hz}$, provided your graphic card and your monitor supports these resolutions.

Features

- Compliant to DVI-D Dual Link specification
- Supports resolutions up to 2560 × 1600 (WQXGA)@ 60 Hz or 1920 x 1080 @ 120Hz
- · Fully Bidirectional
- . No external power needed
- Plug & Play



CAC-1243 DVI-A to VGA M/M Cable 3m/9.9Ft 28AWG

The Club 3D CAC-1243 is a DVI-A Male to VGA Male Cable. This cable is Unidirectional. This CAC-1243 Cable is the easiest solution for connecting your VGA Monitor, Projector or Television to the DVI-D output of your PC / Notebook / Game Console.

All The CAC-1243 uses premium components and gold plated contacts to ensure the highest performance and maximum ease of use resulting in the best user experience with resolutions up to 1600 x 1200@ 60 Hz provided your graphic card and your monitor supports these resolutions.

Features

- Compliant to DVI-A specification
- · Compliant to VGA specification
- Supports VGA resolutions up to 1600 x 1200 @ 60 Hz
- Unidirectional
- · No external power need
- Plug & Play



CAC-1517 USB 3.1 Type C Cable to DisplayPort 1.2 UHD Adapter M/M 1.2m/3.94ft

Cable to DisplayPort 1.2 UHD Adapter is the easiest solution for connecting your USB 3.1 Type C source device featuring DisplayPort™ Alternate Mode to a DisplayPort™ 1.2 enabled (Ultra) High Definition Monitor, Television or Projector. Powered by the USB Type C port, the adapter requires no external power and is ideal for use with the latest notebooks / MacBook (pro) and Tablets.

Supports up to 4K UHD Resolution at 60Hz and AMD FreeSync.

The USB 3.1 Type C Cable to DisplayPort** 1.2 UHD Adapter supports (U)HD resolutions up to 4K UHD @ 60Hz for a clear, sharp picture. The support for 60 frames per second provides exceptionally smooth video. Use the adapter to play games, view video or browse the internet from your USB 3.1 Type-C enabled device on a (Ultra) High Resolution monitor or TV. Supporting up to 8 channels of audio, the adapter provides high-definition digital audio and video. Does not support Dual Mode DisplayPort** (DP++)

Please refer to your device's user manual to confirm the specification and functionality of the USB-C port.

- Reversible USB 3.1 Type C connector
- . Compliant to VESA DisplayPort™ Alt Mode Standard
- Supports full link training and no link training
- Supports (U)HD resolutions up to 3840 x 2160p @ 60Hz
- Supports 3D Video formats up to 1080p @ 120Hz
- Compatibel with Thunderbolt 3
- Powered by USB Port (no external power needed)







CAC-1514 USB C to HDMI 2.0 UHD Cable Active M/M 1.8m/5.91ft

The Club 3D is an Active HDMI™ signal converter cable. The USB C to HDMI™ 2.0 UHD Cable is the easiest solution for connecting your USB 3.1 Type C source device featuring DisplayPort™ Alternate Mode to an HDMI™ 2.0 enabled UHD Monitor, Television or Projector. The HDMI™ adapter is powered by the USB C port, the adapter requires no external power.

Supports up to 4K UHD Resolution at 60Hz.

The USB C to HDMI" 2.0 UHD Cable supports (U)HD resolutions of up to 4K @ 60Hz for a clear, sharp picture. The support for 60 frames per second provides exceptionally smooth video. Use the adapter to play games, view video or browse the internet from your USB 3.1 Type-C enabled device on a (Ultra) high-resolution monitor or TV. Supporting up to 8 channels of audio, the adapter provides high-definition digital audio and video.

Compatibility

The USB C to HDMI™ 2.0 UHD Cable supports all USB 3.1 Type-C devices with DisplayPort™ ALT mode.

Please refer to your device's user manual to confirm the specification and functionality of the USB- C port.

Features

- Reversible USB 3.1 Type C connector
- . Compliant to VESA DisplayPort™ Alt Mode Standard
- Compliant to HDMI™ 2.0 for up to 18 Gbps data rate
- · Supports full link training and no link training
- Supports 3D Video formats up to 1080p @ 120Hz
- Supports resolutions up to 3840 x 2160p @ 60Hz
- Repeater for HDCP 1.3 and HDCP 2.2
- · Powered by USB Port (no external power needed)



CAC-1522 USB 3.1 Type-C Cable 10Gbps 4K60Hz PD 100W M/M 0.8m/2.62ft

The Club 3D CAC-1522 USB 3.1 Type-C PD cable enables the connection of your Notebook, Tablet or Phone with USB Type-C output to the latest USB-C Peripherals, Accessories and Chargers. It offers Video, Data and Power over a single cable and features an e-marker chip. The e-marker is an integrated circuit enabling the connected devices to identify the capabilities of the cable. The CAC-1522 is fully bidirectional.

This feature ensures optimum performance between the connected devices.

The cable supports up to 4K @ 60Hz UHD video, USB 3.1 Super-Speed+ data up to 10Cbps and up to SA output or a maximum charging capacity of 100 Watts for charging or powering your USB Type-C enabled Notebook, Tablet or Smartphone. Video requires host device to support DisplayPort* Mt Mode.

Features

- · Reversible USB Type-C connector
- USB 3.1 Video, Data and Charging through a single Cable
- Features E-marker chip for best performance and compatibility
- Supports resolutions up to 3840x2160@ 60Hz and 3D video
- Supports USB 3.1 Gen 2 SuperSpeed+ up to 10Gbps
- Supports USB Power Delivery 2.0, max. 20V/5A or 100 Watts
- Fully bidirectional
- Compatible with Thunderbolt 3
- · Works with Windows, Apple OS X, Chrome OS



CAC-1523 USB 3.1 Type-C to Type A Cable 10Gbps PD 60W M/M 1m/3.28ft

The Club 3D USB 3.1 Type C to USB Type A cable connects your Notebook, Tablet or Phone with USB Type C output to your favorite existing Peripherals, Accessories and Chargers featuring the common USB Type A plug. It enables Data and Power over a single cable and both ways.

This cable supports USB 3.1 Gen 2. SuperSpeed+ data up to 10Gbps and up to 3A output or a maximum charging capacity of 60 Watts for charging or powering your USB Type C enabled Notebook, Tablet or Smartphone.

Features

- Reversible USB Type C connector (male)/ U SB Type A connector (male)
- USB 3.1 Data and Charging through a single cable
- Supports USB 3.1 Gen 2 SuperSpeed+ up to 10Gbps
- Supports USB Power Delivery 2.0, max. 20V/3A or 60 Watts
- Fully Bidirectional
- · Works with Windows, Apple OS X, Chrome OS
- Works with all USB Type C enabled devices



CAC-1524 USB 3.1 Gen2 Type-C to Type-B Cable M/M. 1 m / 3.28 ft

The Club 3D CAC-1524 USB 3.1 Gen2 Type-C to Type-B Cable enables the connection of your existing USB peripherals, Printers, External HDD's, Docking Stations, etc. with the common Type B connector plug, to Laptops, tablets and Ultrabooks featuring USB Type C outputs.

The cable is backwards compatible and supports USB 3.0 and USB 2.0 as well. The USB 3.1 Gen2 specification ensures a bitrate of 10Gbps for fast transfer of large files.

- Connect USB Type B devices to USB 3.1 Type C enabled Laptops, Tablets and Ultrabooks.
- USB 3.1 data transfer rates up to 10Gbps when used with USB 3.1 Gen2 host and device
- Backwards compatible to support USB 3.0 and USB 2.0 specification.
- . Thunderbolt™ 3 port compatible
- Maximum power support is 30 V/3 A
- · Supports all operating systems







The Club 3D CAC-1557 is a DisplayPort™ signal converter. The USB Type C to DisplayPort™ 1.4 Cable is the easiest solution for connecting your USB Type C source device featuring DisplayPort™ Alternate Mode to a DisplayPort™ 1.4 Monitor, Television or Projector and vice versa. Powered by the USB Type C port, the adapter requires no external power and is ideal for use with the latest notebooks / MacBook (pro) and Tablets.

Supports up to 4K UHD Resolution at 120Hz and 8K at 60Hz and HDR

The USB Type C to DisplayPort**1.4 Cable supports UHD resolutions up to 4K UHD @ 120Hz or 8K at 60Hz for a clear, sharp picture and HDR. The support for 120 frames per second provides exceptionally smooth video. Use the adapter to play games, view video or browse the internet from your USB Type C or DP 1.4 enabled device on a Ultra High Resolution monitor or TV. Supporting up to 8 channels of audio, the adapter provides high-definition digital audio and video. Does not support Dual Mode DisplayPort** (DP++)

Features

- Reversible USB Type C connector
- . Compliant to VESA DisplayPort™ Alt Mode 1.4 Standard
- Supports full link training and no link training
- Supports (U)HD resolutions up to 3840 x 2160p @ 120Hz and $8\mbox{K@}60\mbox{Hz}$
- Supports 3D Video formats up to 1080p @ 120Hz
- Powered by USB Port (no external power needed)
- · The cable is bidirectional

Please refer to your device's user manual to confirm the specification and functionality of the USB-C port.



CAC-1512 USB Type-C to VGA Cable Male/Male 5m/16.40ft

The Club 3D CAC-1512 enables the connection of your USB C Supported Computer to a VGA Supported monitor or projector. This is an all in One Solution Cable and Adapter with the reversible USB C connector. Its necessary for the computer to support DisplayPort Alt mode from the USB C connector.

It allows Widescreen Ultra Extended Graphics Array (WUXGA) at a 16x10 aspect ration with a display resolution of 1920x1200 pixels which makes it a great solution for home, office or other work environments.

This USB C to VGA cable works with USB C Devices such as Macbook, Macbook Pro, Chromebook, Dell XPS, Asus Tablet, and Razer.

Features

- Supports DP1.1 Specifications
- Supports MainLink 1Lane HBR (High Bit Rate) at 2.7Gbit/s per lane and 2 lanes at RBR (Reduced Bit Rate) 1.62Gbit/s per lane
- This cable is USB powered and consumes approx imately 200mW of power for video streaming in WUXGA
- Supports Analog RGB Current source outputs
- Supports 3.3V VSYNC and HSYNC outputs
- Pixel Clock up to 240Mhz
- Triple 8 Bit Digital to Analog Converter (DAC)
- Supports 6, 8 Bits per color
- Supports RGB formats



CAC-1535 USB 3.2 Gen2 Type C to C Active Bi-directional Cable 8K60Hzz M/M 5m/16.4ft

The Club 3D CAC-1535 is an USB Type C to USB Type C Bi-directional Active Cable with a Re-timer chipset for enhancing Video, Data and Power that reaches up to 5 meters / 16.40ft . For video its compatible with DP1.4 standards with a theoretical resolution of up to 8K@60Hz. For data it is compatible with USB3.2 Gen 2 with a maximum of 10Cbps of data transmission and for power it is capable of delivering a max of 60W (20V/3A) PD Charging.

Note: It works with devices that support DisplayPort Alt mode 1.4, its downwards compatible, specification is limited to devices capability.

Features

- Supports USB Type C male to male Bi-directional transmission
- Support max 5m/16.40ft transmission distance with stable signal
- Support DP 1.4 with Max theoretical resolution up to 8K/60Hz. 8.1Gbps per lane, 32.4Gbps with 4 lanes of bandwidth
- Compatible with USB 3.2 Gen2 with a maximum of 10Gbps data transmission, downward compatible with lower versions (USB 3.1/USB3.0/USB2.0)
- Supports a maximum of 60W (20V/3A) PD Charging two way charging, the product supports positive and negative connections, supports hot plugging.
- Offers a perfect solution for VR Gaming
- Built in signal enhanced Re-timer chip and E-Mark chipfor enhancing functions over longer distance than a passive USB C cable and protecting your devices while PD charging.



CAC-1589 USB Gen 2 Type C Active Optical Cable A/V Unidirectional M/M 20 m/65.62 ft

The Club 3D CAC-1589 USB Gen 2 Type C AOC cable enables the connection of your Notebook, Tablet or Phone with USB Type C output to the latest USB C Peripherals and Accessories. It offers Video and Audio over a single 20 m/ 65.62 ft cable.

This feature ensures optimum performance between the connected devices. Supports up to 4K 60Hz UHD video. Video requires host device to support Display-Port* Alt Mode.

Features

- USB 3.2 Gen 2 Video and Audio through a single Cable
- Supports resolutions up to 3840x2160@ 60Hz and 3D video
- Reversible USB Type C connector
- · Works with Windows, Apple OS

*Note that features are subject to the specification of the computer and GPU



QUICK SELECTION: CABLES

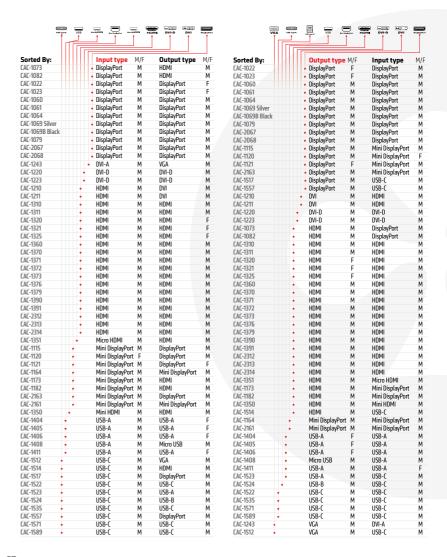


CAC-1571 USB4 Type-C Gen3x2 Bi-Directional Cable 40Gbps 8K60Hz 100W PowerDelivery M-M 0.8m - 2.62ft

The Club 3D CAC-1571 NEW Generation of USB4™ Cable Technology is providing faster data performance, a better charging experience, the convenience of interoperability and certified reliability.

Key characteristics of the USB4™ solution include two-lane operation and up to 40Gbps operation over 40Gbps-certified cables. Multiple data and display protocols to efficiently share the total available bandwidth over the hus.

- Full-featured USB4™ Type-C Certified Cable (USB4™ Gen3x2)
- Bandwidth up to 40Gbps
- Power Delivery up to 100W
- E-mark IC
- Cable length 0.8 m / 2.6 ft
- Support more protocols, DisplayPort™ and PCI express
- Type-C cable ONLY
- Backwards compatible with USB3.2, USB2.0 and Thunderbolt™ 3
- USB-IF Certified









USB TYPE C is a specification for a reversible plug connector for USB Devices and Cabling.

An important benefit of the USB Type C is that it supports USB4, USB 3.2, 3.1, USB 3.0, USB 2.0 and Thunderbolt Technology. USB Type C ports can support a variety of different protocols using "AlternateModes", which allows you to output Power, Data and Video Signals and use of adapters that can output HDMI, VGA, DisplayPort or other types of connections from that Single USB port. This allows for future devices to streamline their design to offer multiple output solutions through one singular output.

Developed in the 1990s, USB has become the most successful computing interface yet.

The throughput has improved from 1.5Mbps to 40Gbps through standards evolution.



1998 USB 1.x Low Speed LS 1.5Mbps Full Speed FS 12Mbps

2000 USB 2.0 High Speed HS 480 Mbps FS/LS

2001 USB on the Go USB 2.0 OTG Master / Slave configurable

2008 USB 3.0 USB 3.1 Gen 1 Super Speed SS 5Gbps / HS/ FS / LS

2013 USB 3.1 Gen 2 Super Speed + SS+ 10Gbps SS/HS/FS/LS

2014 USB 3.2 Gen 2 Super Speed + SS+ 10Gbps and Gen2x2(Dual Lane) for 20-Gbps SS/HS/FS/LS

2017 USB Type C USB 10Gbps DP 8.1Gbps and Power 100 W

2019 USB4 requires USB-C connectors

USB Battery Charging - BC 1.2

USB Battery Charging technology ensures that one can safely charge mobile devices thru the particular USB Port with Battery Charging Feature support. Previously a USB Portable Device with a battery and charging capability simply took power from a USB port without any control. With **"BC 1.2"** introduced end 2010, a Portable Device can get more power and the battery can be charged faster. It is important to verify that a Portable Device complies with the BC 1.2 specifications while communicating with a Charging Downstream Port and identifying a Dedicated Charger, and ensuring that it continues to operate as a functional USB

What is Power Delivery

device.

Some external devices like for instance a computer Mouse will also need some power from the USB Port to operate. The Default Power that USB 1.0 and 2.0 can deliver is 2.5Watt (5Volt, 0.5A) and USB 3.0 and 3.1 can deliver 4.5Watt (5V, 0.9A), USB3.2 can deliver 7.5W (5V/1.5A) and USB4 can deliver 100Watt.



USB PD will become the standard Low power device connector

Before connect the
USB connector is standard powered at SV powered at SV start to negotiate for wanted power profile warning to wanted power profile to the standard power profile to the standard power profile to the standard Low power device to the standard Low power device connector.

Profile	Voltage	Current	Power	Comments
1	5V	2A	10W	Startup profile
2	12V	1,5A	18W	Netbooks
3	12V	3A	36W	Utrabooks
4	20V	3A	60W	Limit for micro A/B connector
5	20V	SA	100W	Limit for standard A/B connector

For the more power hungry external devices different technologies were developed. It is important to distinguish 2 different ones; "USB Power Delivery" and "USB Battery Charging". USB Power Delivery(PD): "Power Delivery" works equally well with USB2.0 3.x and 4 and it allows power draw up to 100 Watt from the source device. This power can be transferred at the same time the data is transmitted through the same cable.

The intent is to permit uniformly charging for laptops, tablets, USB-powered disks and similarly higher power consumer electronics. Please note that an Active USB Type C Cable with E-Marker Chip, like the Club3D CAC-1522, is recommended



Release name	Release date	Max. power	Note
USB Battery Charging 1.0	3/8/07	5 V, ? A	
USB Battery Charging 1.1	4/15/09	5 V, 1.8 A	USB2.0's standard-A Port, 1.5A only
USB Battery Charging 1.2	12/7/10	5 V, 5 A	
USB Power Delivery revision 1.0 (version 1.0)	7/5/12	20 V, 5 A	Using FSK protocol over bus power (VBUS)
USB Power Delivery revision 1.0 (version 1.3)	3/11/14	20 V, 5 A	
USB Type-C rev1.0	8/11/14	5 V, 3 A	New connector and cable specification
USB Power Delivery revision 2.0 (version 1.0)	8/11/14	20 V, 5 A	Using BMC protocol over communication channel (CC) on USB-C cables
USB Type-C rev1.1	4/3/15	5 V, 3 A	
USB Power Delivery revision 2.0 (version 1.1)	5/7/15	20 V, 5 A	
USB Type-C rev1.2	3/25/16	5 V, 3 A	
USB Power Delivery revision 2.0 (version 1.2)	3/25/16	20 V, 5 A	
USB Power Delivery revision 2.0 (version 1.3)	1/12/17	20 V, 5 A	
USB Power Delivery revision 3.0 (version 1.1)	1/12/17	20 V, 5 A	
USB Type-C rev1.3	7/14/17	5 V, 3 A	
USB Power Delivery revision 3.0 (version 1.2)	6/21/18	20 V, 5 A	
USB Type-C rev1.4	3/29/19	5 V, 3 A	
USB Type-C rev2.0	8/29/19	5 V, 3 A	Enabling USB4 over USB Type-C connectors and cables
USB Power Delivery revision 3.0 (version 2.0)	8/29/19	20 V, 5 A	

when making use of Power Delivery up to 100 Watt, to ensure a safe connection. USB PD "Power Delivery" is defined by different profiles – and it depends on the manufacturer which configuration would be used. 100Watts is delivered in scale as follows.

What is USB 3.1

"USB" stands for Universal Serial Bus and "3.1" is the recently released standard which indicates the technology and specifications it is compliant to.

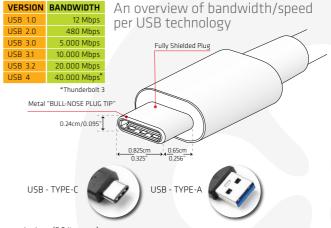
 $\label{eq:USBTypeC} \textbf{USB Type C} is not the same as USB 3.1 - USB Type \\ \textbf{C} is just a connector shape and the underlying } \\ technology could just be USB 2.0 , 3.x.$

Furthermore there are different USB Type-C 3.1 versions the "Gen1" and "Gen2".

USB Type-C 3.1 Gen 1 means that the USB technology used is like USB3.0 (5Gbps).

USB Type-C 3.1 Gen 2 means that the technology used is USB 3.1 over 2-lanes(10Gbps).

To be able to send Video signals over USB 3.1



Type-C (Gen2) the source device (PC/Laptop) will need to have displayport Alternate Mode Support. Although Thunderbolt 3 is also coming out with a USB Type C connector, it is not the same as USB 3.1 Type C Gen2.

USB Types and Naming										
Specification	Name	Previous name	USB-IF branding	Data rate	Transfer speed	Logo				
USB 3.0	USB 3.2 Gen 1	USB 3.1 Gen 1	SuperSpeed USB 5Gbps	5 Gbit/s	500 MB/s	SS<₹5				
USB 3.1	USB 3.2 Gen 2	USB 3.1 Gen 2	SuperSpeed USB 10Gbps	10 Gbit/s	1.21 GB/s	SS<₹¹□				
USB 3.2	USB 3.2 Gen 2 x 2	N/A	SuperSpeed USB 20Gbps	20 Gbit/s	2.42 GB/s	<i>SS</i> ^{₹20}				
USB4	USB Gen 2 x 2	Thunderbolt 3	SuperSpeed USB 40Gbps	40 Gbit/s	4.8 GB/s	USB40™				





What is USB Graphic?

USB Graphic Technology allows you to connect almost any kind of display via a standard USB connector or cable. The technology is designed to be simple and easy to use: just install the software, plug in your device and within a few seconds you have got a new monitor, docking station or projector connected to your PC. There is simply no easier way to add a display to your PC or Mac. Club3D offers a wide range of products from universal USB docking Stations to USB Graphic adapters.

For Apple users: Apple display settings will hide the resolution, so please hold down the option button on the Apple display resolution interface and then click zoom position of the resolution interface to display the hidden resolution. Then check the real resolution.

Video Performance

USB Graphic offload all the heavy lifting of HD Video Playback and 3D Rendering to the GPU of your device. If your GPU performance is good you can even play games on a 4K Monitor.

USB Graphic provide support for HDCP which means that you will not get a blank screen when trying to watch the latest HD Movie.

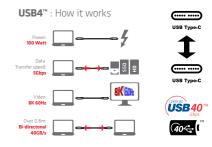
Discover True Detail

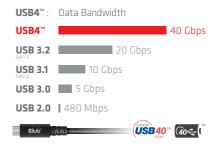
4K also known as Ultra High Definition (UHD) delivers four times as much details as 1080p Full HD, that is eight million pixels compared to two million pixels, bringing more image clarity, fine detail and greater texture. Now you can embrace these technologies with just a free USB Port.

About USB4

The NEW Generation of USB4™ Technology is providing faster data performance, a better charging experience, the convenience of interoperability and certified reliability. Key characteristics of the USB4™ solution include two-lane operation and up to 40Gbps operation over 40Gbps-certified cables. Multiple data and display protocols efficiently share the total available bandwidth over the bus. The USB4™ architecture defines a method to share a single high-speed link with multiple end device types dynamically that best serves the transfer of data by type and application.

USB4: 40GB/s Data Bandwidth | Thunderbolt 3 Compatible | Dynamic Bandwidth Sharing | 100W Power Delivery









USB4 Features

Features:

- · Bandwidth up to 40GBps
- Power Delivery up to 100W
- E-mark IC
- Support more protocols, DisplaPort™ and PCI express
- Type-C cable ONLY
- Backwards compatible with USB3.2, USB2.0 and Thunderbolt™ 3
 (the resulting connection scales to the best mutual capability of the devices being connected.)
- USB-IF Certified

Difference Between Bandwidth and Speed

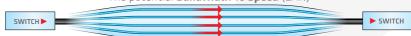
You might come across bandwidth and data transfer rate being used synonymously. While they are related, they refer to two very different measurements. Here an explanation understanding the differences. The key difference between bandwidth and speed is that the bandwidth is the capacity available for use in data transmission while the speed is the data transferring rate.

Bandwidth: Bandwidth is the maximum potential data that can be transferred within a given time. The bandwidth is shared among all users of the bandwidth.



USB4": What are the main advantages - All in1 Cable connection

The potential Bandwidth vs Speed (LAN)



Example: 4 Lane Data Stream. 4 x 10 GbE in a LAG = 40GB Bandwidth but only 10 GbE Speed

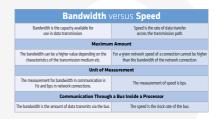
Bandwidth: Bandwidth is the maximum potential data that can be transferred within a given time. The bandwidth is shared among all users of the bandwidth.

Data Transfer Rate: The data transfer rate is the actual amount of data that is passed from one location to another over a given period of time.

LAG: A link aggregation group (LAG) is the collection of physical ports combined together.

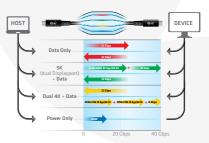
GBE: Gleabit Ethernet

Data Transfer Rate: The data transfer rate is the actual amount of data that is passed from one location to another over a given period of time. The most common example is a Link Aggregation where a number of Ethernet connection are bonded into a single interface. The bandwidth is the sum of the total connections but the speed is determined by the physical network connection.



Summary - Bandwidth vs Speed

Bandwidth and speed are common terms in fields such as Networking, Electronics,
Telecommunication etc. The difference between bandwidth and speed is that bandwidth is the capacity available for use in data transmission while speed is the data transferring rate.





What Is: Displayport™ Over Alt Mode?

Some History In 2014 there was the very first introduction of the USB-C Alt mode, DisplayPort Alt Mode. By remapping the USB-C high speed data pins from USB data to DisplayPort data, it became possible to use a USB-C port as a DisplayPort video output, and in some cases even mix the two to get both USB 3.x signaling and DisplayPort signaling over the same cable. As a result of DisplayPort Alt Mode's release, the number of devices with video output has exploded, and in laptops especially, this has become the preferred mode for driving video outputs when a laptop doesn't include a dedicated HDMI port.

USB-C and DisplayPort.

The DisplayPort protocol, which used to have a unique connector, is now transferred by way of the USB-C connector. The Type-C connector delivers DisplayPort technology via an Alternative Mode (Alt Mode).

With USB-C you get:

- USB 3.1 Gen 2 data transfer rates of 40Gbps
- USB Power Delivery 2.0 Up to 100W of bidirectional power delivery
- DisplayPort Alternate Mode (DP Alt Mode) with DP1.4 support

Even though USB-C is capable of supporting all of these features, not all of them are present all the time. Users will need to know the specifications of their devices to understand the display protocols supported.

What is Alt Mode?

Alt Mode is a term you will come across frequently when investigating USB-C.

Alt Mode is a functional extension of USB-C which enables the USB connection to carry non-USB signals. Alt Mode(s) are optional capabilities that are unique to the USB-C connector or port that allow technologies, like DisplayPort and Thunderbolt 3, to be transmitted. Knowing what devices and ports support the various Alt Modes may be confusing and, at times, frustrating.

DisplayPort over Alt Mode

DisplayPort Alt Mode (DP Alt Mode) allows a USB-C equipped computer to connect directly to a display or monitor. The monitor will need to have a USB-C port for you to make this connection. You can still use a USB-C equipped laptop with monitors that have more traditional video ports, such as VGA, DVI, HDMI, and DisplayPort but you will need to get a USB-C video adapter.

What do I need to know before using DisplayPort over Alt Mode?

- Confirm your computer's USB-C port supports DP Alt Mode
- Read the tech specs on the USB-C video adapter to ensure it supports the resolutions and refresh rates you want
- If you are interested in a USB-C MST video adapter or laptop docking station, make sure your video card also supports MST

What to Check: DisplayPort[™] over Alt Mode. First things First!

- Always check the specification of the devices you are going to use. So the Laptop, PC or another source device.
- Also check the specification of the connecting cables and adapters you are using (also if there Uni- or Bidirectional).
- Check the specification of the required output device.
- Make sure they support the USB C over Alt Mode!

How To Check: The Usb C Port Version/Type.

What does the USB C port look like?

The USB C port is an oval port. The port is also smaller than a USB A. In addition, the USB C connection is symmetrical. For example, you can insert a USB C plug into a USB C port in 2 ways.





Usb C is: Oval / Symmetrical / Smaller than USB A.



What type of USB C port does my Windows laptop have?

Next to the ports of a Windows laptop are symbols / logos, which indicate what you can do with the port.

- Is there a symbol of a lightning (Thunderbolt
 3) next to the USB C port? Then you can charge
 via this port and pass on a video signal and thus
 connect a monitor. This port supports DisplayPort
 all mode.
- Is there a symbol of a D (DisplayPort) next to the USB-C port? Then you can pass on a video signal via this port and thus connect a monitor. This port supports DisplayPort alt mode.
- Is there a symbol of a battery next to the USB C port? Then you can charge your laptop via this port. This port does not support DisplayPort alt mode.



From top to bottom: Thunderbolt 3 (Flash) | DisplayPort (DP) | SuperSpeed (SS)

USB C port Windows

What type of USB C port does my MacBook have? With MacBook, there is no logo or symbol next to the gate.

What type of USB C on my Apple Mac

Functie usb C	Video signal / Supports	
Model MacBook	DisplayPort alt mode	Charging
MacBook Pro 2016-2019	Yes	Yes
MacBook Pro 2015	No	No
MacBook Air 2018-2019	Yes	Yes
MacBook Air 2015-2017	No	No
MacBook 12 inch 2015-2017	Yes	Yes

On a MacBook, follow these steps:

- · Start up the MacBook.
- On the desktop at the top left, go to the Apple logo and click on it. Click on "About this mac".
- Check which model / introduction year you have.
- Use the diagram below to see what you can do with your type of USB C on the MacBook. This port supports DisplayPort alt mode.
- Also see the website of www.apple.com for all models

What about: Drivers and firmware updates

To get the most out of the connection. You may need to do some driver and/or firmware updating. So the best screen resolution and data speed will be available.

• It is advisable to update the driver or firmware

The USB C ports on a Apple MacBook



of your device to fix device issues and to take advantage of enhancements that are not available in previous versions.

- NOTE: Update and Firmware processes may vary depending on your device manufacture and the operating system (OS) off the device. See theyre READ-ME files and installation instructions before execution.
- **IMPORTANT**: Read the user manual of your devices to find out where and how to find the current system/firmware version of your devices.

Displayport™ Over Usb C Technical Details

DisplayPort™ leverages the Alternate Mode Functional Extension of the USB Type-C interface, and shares similar electrical characteristics with USB 3.1, allowing use of common system elements.

- Video, SuperSpeed USB and power, all on one connector
- 4K @60Hz 24-bit color (without compression) with simultaneous USB 3.1
- 5K (5120 x 2880) display support without compression with simultaneous USB 2.0
- Support for BT.2020 color space, HDR, and HDCP
 2.2
- 8K x 4K display support with use of 4:2:0 pixel structure (good) or VESA Display Stream Compression (better)
- High-end multichannel audio support
- Backward compatible with VGA, DVI, and HDMI
 2.0 with CEC using plug adapters or adapter cables
- Extensible packet-based data structure





CABLE SUPPORTED RESOLUTIONS GUIDE

Possible resolutions of HDMI™



					HDMI Versi	on / Maximi	ım Data Ra	te*
Description	Resolution	Refresh	Data Rate	1.0 - 1.1	1.2 - 1.2a	1.3 - 1.4b	2.0 -2.0b	2.1
		Rate (Hz)		3.96 Gbit/s[b]	3.96 Gbit/s[b]	8.16 Gbit/s[b]	14.4 Gbit/s[b]	42.6 Gbit/s[b]
		24	592,42 Mbit/s	YES	YES	YES	YES	YES
720p	1280 x 720	30	740,52 Mbit/s	YES	YES	YES	YES	YES
		60	1,49 Mbit/s	YES	YES	YES	YES	YES
		120	3,08 Gbit/s		YES	YES	YES	YES
		30	1,63 Gbit/s	YES	YES	YES	YES	YES
		60	3,29 Gbit/s	YES	YES	YES	YES	YES
1080p	1920 × 1080	120	6,78 Gbit/s	NO	NO	YES	YES	YES
		144	8,15 Gbit/s	NO	NO	YES	YES	YES
		240	14,40 Gbit/s	NO	NO	NO	YES	YES
	2560 × 1440	30	2,86 Gbit/s	NO	YES	YES	YES	YES
		60	5,79 Gbit/s	NO	NO	YES	YES	YES
		75	7,29 Gbit/s	NO	NO	YES	YES	YES
1440p		120	11,92 Gbit/s	NO	NO NO	NO	YES	YES
		144	14,40 Gbit/s	NO	NO	NO	YES	YES
		165	16,76 Gbit/s	NO	NO NO	NO	NO	YES
		240	25,32 Gbit/s	NO	NO NO	NO	NO	YES
		30	6,36 Gbit/s	NO	NO	YES	YES	YES
		60	12,90 Gbit/s	NO	NO NO	NO	YES	YES
4K	3840 × 2160	75	16,24 Gbit/s	NO	NO NO	NO	NO	YES
41.	3640 ^ 2100	120	25,90 Gbit/s	NO	NO NO	NO	NO	YES
		144	32,24 Gbit/s			NO	NO	YES
		240	56,40 Gbit/s			NO	NO	YES DSC SUPPORT**
		30	11,25 Gbit/s			NO	YES	YES
5K	5120 × 2880	60	22,81 Gbit/s			NO	NO	YES
		120	46,96 Gbit/s			NO	NO	YES DSC SUPPORT**
		30	25,18 Gbit/s			NO	NO	YES
8K	7680 × 4320	60	51,07 Gbit/s			NO	NO	YES DSC SUPPORT**
		120	105,11 Gbit/s			NO	NO	YES DSC SUPPORT**

*Maximum Data Rate means 8b/10b overhead substracted.

Possible resolutions of DisplayPort



							Data Rate*		
Description	Resolution	Refresh	Data Rate	1.0 -1.1a	1.2 -1.2a	1.3	1.4		
	nesolution	Rate (Hz)		8.64 Gbit/s[b]	17.28 Gbit/s[b]	25.92 Gbit/s[b]	25.92 Gbit/s[b]		
		24	592,42 Mbit/s	YES	YES	YES	YES		
720p	1280 x 720	30	740,52 Mbit/s	YES	YES	YES	YES		
		60	1,49 Mbit/s	YES	YES	YES	YES		
		120	3,08 Gbit/s	YES	YES	YES	YES		
		30	1,63 Gbit/s	YES	YES	YES	YES		
		60	3,29 Gbit/s	YES	YES	YES	YES		
1080p	1920 × 1080	120	6,78 Gbit/s	YES	YES	YES	YES		
		144	8,15 Gbit/s	YES	YES	YES	YES		
		240	14,40 Gbit/s		YES	YES	YES		
		30	2,86 Gbit/s	YES	YES	YES	YES		
		60	5,79 Gbit/s	YES	YES	YES	YES		
	2560 × 1440	75	7,29 Gbit/s	YES	YES	YES	YES		
1440p		2560 × 1440	2560 × 1440	120	11,92 Gbit/s	NO	YES	YES	YES
		144	14,40 Gbit/s	NO	YES	YES	YES		
		165	16,76 Gbit/s		YES	YES	YES		
		240	25,32 Gbit/s	NO	NO	YES	YES		
		30	6,36 Gbit/s	YES	YES	YES	YES		
		60	12,90 Gbit/s		YES	YES	YES		
4K	3840 × 2160	75	16,24 Gbit/s	NO	YES	YES	YES		
410	3040 ** 2100	120	25,90 Gbit/s	NO	NO	YES	YES		
		144	32,24 Gbit/s	NO	NO	NO	YES DSC SUPPOR		
		240	56,40 Gbit/s	NO	NO NO	NO	YES DSC SUPPOR		
		30	11,25 Gbit/s	NO	YES	YES	YES		
5K	5120 × 2880	60	22,81 Gbit/s	NO	NO	YES	YES		
		120	46,96 Gbit/s	NO	NO NO	NO	YES DSC SUPPOR		
		30	25,18 Gbit/s	NO	NO	YES	YES		
8K	7680 × 4320	60	51,07 Gbit/s	NO	NO	NO	YES DSC SUPPOR		
		120	105,11 Gbit/s	NO	NO	NO	NO		

'Maximum Data Rate means 8b/10b overhead substracted.

Possible resolutions of DVI



				DVI / Maximu	ım Data Rate*
Description	Resolution	Refresh	Data Rate	Single Link	Dual Link
		Rate (Hz)		3.96 Gbit/s[b]	7.92 Gbit/s[b]
		24	592,42 Mbit/s	YES	YES
720p	1280 x 720	30	740,52 Mbit/s	YES	YES
		60	1,49 Mbit/s	YES	YES
		120	3,08 Gbit/s	NO	YES
		30	1,63 Gbit/s	YES	YES
		60	3,29 Gbit/s	YES	YES
1080p	1920 × 1080	120	6,78 Gbit/s	NO	YES
		144	8,15 Gbit/s		NO
		240	14,40 Gbit/s	NO	NO
	2560 × 1440	30	2,86 Gbit/s		YES
		60	5,79 Gbit/s	NO	YES
		75	7,29 Gbit/s		YES
1440p		120	11,92 Gbit/s	NO	NO
		144	14,40 Gbit/s	NO	NO
		165	16,76 Gbit/s	NO	NO
		240	25,32 Gbit/s	NO	NO
		30	6,36 Gbit/s	NO	YES
		60	12,90 Gbit/s	NO	NO
4K	3840 × 2160	75	16,24 Gbit/s	NO	NO
710		120	25,90 Gbit/s	NO	NO
		144	32,24 Gbit/s		NO
		240	56,40 Gbit/s	NO	NO
		30	11,25 Gbit/s	NO	NO
5K	5120 × 2880	60	22,81 Gbit/s	NO	NO
		120	46,96 Gbit/s	NO	NO
		30	25,18 Gbit/s	NO	NO
8K	7680 × 4320	60	51,07 Gbit/s	NO	NO NO
		120	105,11 Gbit/s	NO	NO

Maximum Data Rate means 8b/10b overhead substracted.



^{**}DSC - Display Stream Compression. VESA, the Video Electronics Standard Association published a new standard in 2014 that uses visually lossless image compression to increase the amount of data carried by a display interface data rate, thus saving power.

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we onnect

Club 3D **The Netherlands**Club 3D B.V.
E-mail: info@club-3d.com

Club 3D **Germany** Club 3D GmbH E-mail: info@club 3d.de

Club 3D North America E-mail: salesna@club-3d.com

Club 3D Italy Email: sales@club-3d.com

Club 3D **Spain** Email: sales@club-3d.com