

CPLUS-1082VA

NEW 4K HDR 10x10 HDMI/Audio Matrix over HDBaseT with IR, RS-232, PoH (PSE), LAN & OAR



INTRODUCTION

This Matrix supports routing and transmission of video (resolutions up to 4K@60Hz w/ HDMI 2.0 & HDCP 2.2) and audio (multi-channel digital/stereo analog) while providing flexible control via IR, RS-232, Telnet or WebGUI. As many as ten UHD sources may be routed to any of eight destinations via a single Cat.5e/6/7 cable (up to 100m at 1080p or up to 70m at 4K). Despite HDBaseT's 10.Gbps bandwidth limitation, 4K UHD HDMI video sources, up to and including 4K@60Hz (4:4:4, 8-bit) as well as 10/12-bit sources with HDR, are able to be processed and extended by the use of AVLC (Adaptive Visually Lossless Compression) when connected to a compatible AVLC Receiver. Two additional HDMI 2.0 outputs support transmission of 18Gbps Ultra HD HDMI sources (up to 4K@60Hz, 4:4:4, 8-bit) from any HDMI input or they can mirror any of the HDBaseT outputs for local monitoring.

This product also provides an expansive array of options for controlling and routing audio. To start, it supports passing 7.1 channel LPCM digital audio as well as advanced Bitstream and HD Bitstream audio formats via HDMI/HDBaseT. Additionally, eight analog audio outputs are available to provide stereo breakout zone audio from the associated HDBaseT output (LPCM 2.0 sources only).



INTRODUCTION

This product incorporates an independent audio matrix with a possible total of 14 audio outputs and 8 audio inputs. Offering discrete audio routing, insertion and extraction, this product makes it possible to have multiple audio zones within your installation. Additionally the matrix contains 3 independent audio mixers allowing for applications such as adding music or a voiceover to live video. This product also supports the Optical Audio Return (OAR) feature, found on compatible HDBaseT receivers, allowing optical audio sources connected to those receivers to be sent back to the matrix unit for local playback.

Integrated LAN extension support allows your 100BaseT network to be extended to smart TVs or game consoles. Internally generated test patterns (up to 4K@60Hz) are provided to assist with setup, providing a simple way to verify both matrix and sink functionality. The 48V PoH (Power over HDBaseT) function can provide power to compatible receivers, providing greater flexibility in installations. Control is via manual selection buttons, WebGUI, Telnet, RS-232 or IR remote.

FEATURES

- HDMI 2.0 and HDBaseT 1.0 compatible
- HDCP 1.4 and HDCP 2.2 compliant
- Routes ten HDMI sources to ten displays using eight HDBaseT outputs and two independent or mirrored HDMI outputs
- Supports up to 4K UHD (18Gbps, 4K@50/60Hz 4:4:4, 8-bit) video input and output
 - Note: Support of resolutions requiring bandwidth above 10.2Gbps via HDBaseT requires a compatible AVLC Receiver.*
- Supports Deep Color input and output up to 12-bit
- Supports 10-bit and 12-bit HDR (High Dynamic Range) input/output
- HDBaseT feature support: HD Video and Audio, 100BaseT Ethernet, 48V PoH and Control (bidirectional IR/RS-232 pass-through)
- Supports standard 48V PoH from the unit (PSE) to connected HDBaseT Receivers (PD) (compatible Receivers only)
- HDBaseT outputs provide simultaneous transmission of uncompressed video, audio and data over a single Cat.5e/6/7 cable up to 100m/328ft at 1080p and 70m/230ft at 4K
- Integrated AVLC (Adaptive Visually Lossless Compression) activates when the bandwidth requirements of the source are beyond 10.2Gbps (340MHz) allowing for support of sources up to 18Gbps (600MHz) with no loss of visual quality
- The AVLC function allows manual selection between High Quality (Full bandwidth) and Medium Quality modes (Lower bandwidth, useful for longer cable runs with 4K sources)
- Supports automatic 4K@60Hz RGB/YUV 4:4:4 to YUV 4:2:0 conversion for compatibility with non-AVLC HDBaseT Receivers

FEATURES

- Supports pass-through of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Supports audio matrix functionality enabling full audio management of the system including HDBaseT audio selection, fully independent audio-only zones and HDMI audio embedding and de-embedding (LPCM only)
- High-quality Digital to Analog Conversion (DAC) and Analog to Digital Conversion (ADC) for audio signal integration
- Supports integrated audio over CAT ports (input/output selectable) for audio extension up to 300m
- Supports volume, treble, bass, and audio delay for lip-sync (up to 230ms) on analog audio outputs and mute on all outputs
- HDBaseT outputs support the Optical Audio Return (OAR) function to transmit optical audio from a compatible Receiver to the unit
- Audio mixer functionality (three mixers in total) with pre-gain input volume control
- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Basic internal test pattern generation with test signals up to 4K@60Hz for testing video paths
- Per-output OSD Banner Information function
- Control via front panel controls, Ethernet (Telnet & WebGUI), RS-232, & IR remote
- 2U rack mounted design

CPLUS-44PLV

NEW 4K HDR 4x4 HDMI Matrix over HDBaseT with IR, RS-232 & PoH (PSE)



INTRODUCTION

This Matrix supports routing and transmission of video (resolutions up to 4K@60Hz w/ HDMI 2.0 & HDCP 2.2) and audio (multi-channel digital/stereo analog) while providing flexible control via IR, RS-232, Telnet or WebGUI. As many as four UHD sources may be routed to any of four destinations via a single Cat.5e/6/7 cable (up to 70m at 1080p or up to 35m at 4K). Despite HDBaseT's 10.Gbps bandwidth limitation, 4K UHD HDMI video sources, up to and including 4K@60Hz (4:4:4, 8-bit) as well as 10/12-bit sources with HDR, are able to be processed and extended by the use of AVLC (Adaptive Visually Lossless Compression) when connected to a compatible AVLC Receiver.

This product also provides an array of options for routing audio. To start, it supports passing 7.1 channel LPCM digital audio as well as advanced Bitstream and HD Bitstream audio formats via HDMI/HDBaseT. Additionally, four analog audio outputs are available to provide stereo breakout zone audio from the associated HDBaseT output (LPCM 2.0 sources only).

Internally generated test patterns (up to 4K@60Hz) are provided to assist with setup, providing a simple way to verify both matrix and sink functionality. The 48V PoH (Power over HDBaseT) function can provide power to compatible receivers, providing greater flexibility in installations. Control is via manual selection buttons, WebGUI, Telnet, RS-232 or IR remote.



FEATURES

- HDMI 2.0 and HDBaseT 1.0 compatible
- HDCP 1.4 and HDCP 2.2 compliant
- Routes four HDMI sources to four displays using four HDBaseT outputs
- Supports up to 4K UHD (18Gbps, 4K@50/60Hz 4:4:4, 8-bit) video input and output
Note: Support of resolutions requiring bandwidth above 10.2Gbps via HDBaseT requires a compatible AVLC Receiver.
- Supports Deep Color input and output up to 12-bit
- Supports 10-bit and 12-bit HDR (High Dynamic Range) input/output
- HDBaseT feature support: HD Video and Audio, 48V PoH and Control (bidirectional IR/RS-232 pass-through)
- Supports standard 48V PoH from the unit (PSE) to connected HDBaseT Receivers (PD) (compatible Receivers only)
- HDBaseT outputs provide simultaneous transmission of uncompressed video, audio and data over a single Cat.5e/6/7 cable up to 70m/230ft at 1080p and 35m/115ft at 4K
- Integrated AVLC (Adaptive Visually Lossless Compression) activates when the bandwidth requirements of the source are beyond 10.2Gbps (340MHz) allowing for support of sources up to 18Gbps (600MHz) with no loss of visual quality
- The AVLC function allows manual selection between High Quality (Full bandwidth) and Medium Quality modes (Lower bandwidth, useful for longer cable runs with 4K sources)
- Supports automatic 4K@60Hz RGB/YUV 4:4:4 to YUV 4:2:0 conversion for compatibility with non-AVLC HDBaseT Receivers
- Supports pass-through of all standard digital audio formats: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- High-quality Digital to Analog audio Conversion (DAC)
- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Basic internal test pattern generation with test signals up to 4K@60Hz for testing video paths
- Per-output OSD Banner Information function
- Control via front panel controls, Ethernet (Telnet & WebGUI), RS-232, & IR remote
- 1U rack mounted design



SPECIFICATIONS

CPLUS-1082VA

Input Ports	10×HDMI 2×S/PDIF (2×TOSLINK) 2×S/PDIF (2×RCA) 4×Stereo (8×RCA)
Output Ports	2×HDMI 8×HDBaseT (RJ45) 12×Stereo (24×RCA)
Bidirectional Ports	2×Stereo (RJ45)
Pass-through Ports	9×IR Extender (3.5mm) 11×IR Blaster (3.5mm)
Control Port	1×RS-232 (DE-9)
Pass-through/Control Port	1×LAN (RJ45)
Power Supply	24V/6.25A
Dimensions	438mm×88mm×316mm (W×H×D) [Case Only] 483mm×96mm×356mm (W×H×D) [All Inclusive]
Weight	6,500g



SPECIFICATIONS

CPLUS-44PLV

Input Ports	4×HDMI
Output Ports	4×HDBaseT (RJ45) 4×Stereo (8×RCA)
Pass-through Ports	5×IR Extender (3.5mm) 5×IR Blaster (3.5mm)
Control Ports	1×RS-232 (DE-9) 1×IP Control (RJ45)
Power Supply	24V/6.25A
Dimensions	438mm×44mm×270mm (W×H×D) [Case Only] 482mm×49mm×279mm (W×H×D) [All Inclusive]
Weight	3,642g