

CPLUS-421PLV

UHD+ 4x2 HDMI to HDBaseT / HDMI Matrix AV System



This 4x2 HDMI to HDBaseT/HDMI Matrix with Stereo Amplifier provides high performance audio and video support, including HDR and ARC, making it ideally suited for multi-zone residential or corporate installations. Any of four high-bandwidth (18Gbps) HDMI sources may be routed to either of the two HDBaseT Zone outputs via a single Cat.5e/6/7 cable (up to 70m at 1080p or up to 35m at 4K) with Zone A's output also being mirrored to a local HDMI output. Despite HDBaseT's 10.2Gbps 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 compatible AVLC Receivers providing gorgeous video quality.

Pass-through of multiple digital audio formats such as LPCM 7.1, Bitstream and advanced HD Bitstream with audio sampling rates up to 192kHz are supported via the HDBaseT and HDMI outputs. Additionally, the integrated stereo amplifier provides up to 40 watts of power (20W per channel) for local speakers to output the audio from the sources routed to either of the HDBaseT outputs, or from the ARC audio coming back from the display connected to the HDMI output, offering a flexible sound experience (LPCM 2.0 sources only).

This unit also contains a specialised IR learning and smart-routing functionality. IR codes from each connected source's remote can be learned and then recalled using this unit's dedicated remote control, or the mobile device app. Intelligent IR routing ensures that only the IR signals appropriate to the source being viewed in the current zone are used by the dedicated remote control while the mobile device app provides the ability to send IR commands to control any connected source. IR command sets may also be uploaded or downloaded to/from the unit via XML files.

The 48V PoH (Power over HDBaseT) function can provide power to compatible Receivers, providing greater flexibility in installations. This unit can be controlled in a wide variety of different ways including front panel buttons, RS-232, IR remote, Telnet, WebGUI and a mobile device app.

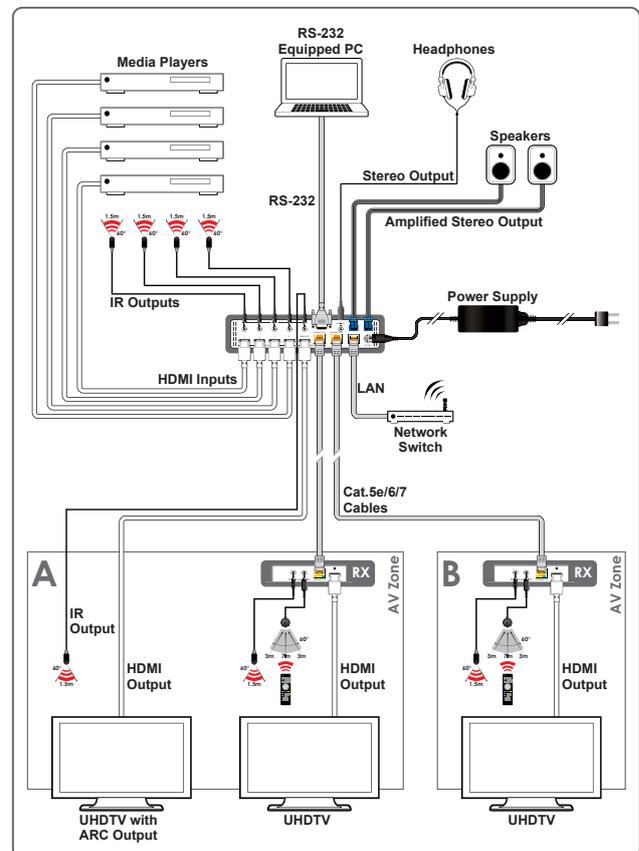
PANELS



FEATURES

- HDMI with HDR, 3D & 4096 x 2160p@60Hz support, DVI 1.0 compatible
- Routes four HDMI sources to two HDBaseT outputs with a mirrored HDMI output with support for automatic input switching
- Supports up to 4K UHD (18Gbps, 4096 x 2160p@50/60Hz 4:4:4, 8-bit) video input and output
Note: Support of resolutions with bandwidth above 10.2Gbps via HDBaseT requires a compatible AVLC Receiver.
- Supports 'Deep Colour' 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 (bi-directional IR pass-through)
- 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
- Per-output, selectable, 4K to 1080p down-scaling/colour space conversion (4:4:4 to 4:2:0)
- Supports pass-through of LPCM 7.1, Bitstream and advanced HD Bitstream audio formats
- Supports the Audio Return Channel (ARC) function to transmit digital audio from an ARC-enabled TV connected to the HDMI output (LPCM 2.0 only)
- Selectable stereo analogue audio breakout mirrored to both amplified (20W per channel) and un-amplified (3.5mm headphone) connections. (LPCM 2.0 only)
- Support for learning IR remote codes for on-demand retransmission

DIAGRAM



SPECIFICATIONS

Interfaces

Input Port	4×HDMI (Type-A)
Output Port	1×HDMI (Type-A) 2×HDBaseT (RJ-45) 1×Analogue Stereo (2×Terminal Block) 1×Analogue Stereo (3.5mm)
Control I/O	1×RS-232 (DE-9) 1×IP Control (RJ-45)
Bypass Port	5×IR Blaster (3.5mm)
Service Port	1×USB 2.0 (Type-A)

Video

HDMI Compliance	2.0 (DVI 1.0)	
HDCP Compliance	2.2	
Input Signal Type	4K@60 8bit YUV 4:4:4	
Output Signal Type	HDMI	4K@60 8bit YUV 4:4:4
	HDBaseT	4K@60 8bit YUV 4:2:0
	Resolutions	
Maximum Input	HDMI	4096x2160p@60
Maximum Output	HDMI	4096x2160p@60
	HDBaseT	4096x2160p@60 YUV 4:2:0

Audio

HDMI	LPCM 8 channel Bitstream High-Definition Bitstream
Line Out	Max Audio Level: 2Vrms Impedance: 10kΩ Type: Unbalanced

Power

Power Supply	24V/2.7A DC
Power Consumption	46.64W

Enclosure

Chassis Material	Metal (Steel)
Chassis Color	Black
Dimensions (W×H×D)	219mm×43mm×156mm (W×H×D) [Case Only] 219mm×54mm×163.5mm (W×H×D) [All Inclusive]
Weight	1,258g

Field Firmware Update

PC Update, WebGUI

ORDERING INFORMATION

Model No.	Product Description
CPLUS-421PLV	UHD ⁺ 4x2 HDMI to HDBaseT / HDMI Matrix AV System
CH-1527RXPLV	UHD ⁺ HDMI over HDBaseT Receiver with HDR