



PUV-44XPL-AVLC-KIT

4 x 4 HDMI Full 4K HDBase1 LITE Matrix with AVLC & Audio De-embedding
Inc. 4x PUV-1710LRX-AVLC Receivers



The PUV-44XPL-AVLC is the next generation of 4 x 4 matrices from CYP, taking much of its heritage from the successful PUV-44XPL-4K22. The Matrix supports the transmission of video (resolutions up to 4K UHD 10/12-bit HDR & Dolby Vision, HDCP 2.2, HDMI2.0) and multi-channel digital audio from 4 HDMI sources to 4 HDBaseT outputs. Despite the 10.2Gbps limitation of HDBaseT™ technology, this ground breaking product enables data rates of up to 18Gbps to be transmitted using AVLC (Adaptive Visually Lossless Compression) Technology. The transmitter enables 4KUHD sources up-to and including 4K@60Hz (4:4:4 8-bit) as well as 10/12 bit sources with HDR (including Dolby Vision) to be extended to a compatible receiver included in the kit. The result is a perfect 4K 6G visually lossless image delivered to the display screen.

The PUV-44XPL-AVLC supports independent video output scaling on two of the HDBaseT outputs. This is particularly useful when transmitting a 4K HDR image from the matrix to a standard 1080p HD display within an AV setup.

The HDBaseT outputs allow transmission via a single CAT5e/6/7 cable up to 60m (40m HDR Content). This matrix supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio as well as 3D video content.

This matrix also features audio breakout whereby de-embedded analogue L/R audio outputs are provided for each of the HDBaseT zones (A to D). The Power over HDBaseT (PoH) function provides power to the supplied PUV-1710LRX-AVLC receivers which also support 2-way IR and RS-232 pass-through.

Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI. CYP provide control drivers for all major control systems.

PANELS

Matrix



Front View



Rear View

Receiver



Front View

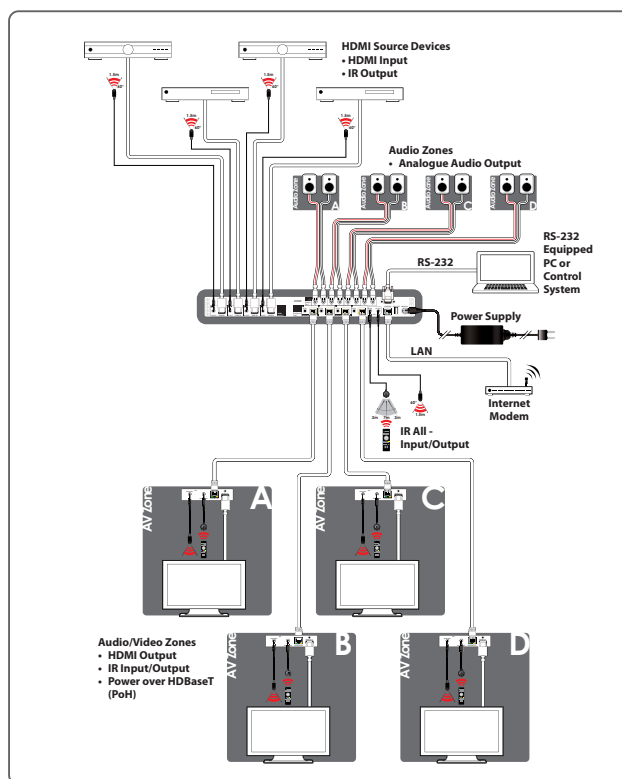


Rear View

FEATURES

- HDMI 2.0, HDCP1.4 and HDCP2.2 compliant
- Routes 4 HDMI sources to 4 displays using 4 HDBaseT outputs
- High-Definition video and audio, PoH (Power over HDBaseT) and control (Bi-Directional IR & RS-232 pass through)
- Supports up-to 4K UHD (18Gbps, 4K @50/60Hz 4:4:4 8-bit) video input
- AVLC (Adaptive Visually Lossless Compression)
- Supports 10-bit and 12-bit HDR (High Dynamic Range)
- Supports output resolutions up to 4K @50/60Hz (4:4:4 8-bit)
- 4K 3G Timings and 1080p up-to 70 Metres, 4K 6G Timings up to 40 Metres
- Supports pass-through of HD audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2/5.1CH, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports HDCP repeating and CEC functions
- Control is via RS-232, remote control, on-panel control and IP Control (Telnet & Web GUI)
- 1U rack mounted design

DIAGRAM





PUV-44XPL-AVLC

4 x 4 HDMI Full 4K HDBase1 LITE Matrix with AVLC & Audio De-embedding
Inc. 4x PUV-1710LRX-AVLC Receivers

SPECIFICATIONS

Interfaces (Matrix)

Input Ports	4 x HDMI (Type-A)
Output Port	4 x Cat5e/6/7 4 x Stereo Audio (RCA pairs)
Control Ports	1 x RS-232 (DE-9) 1 x IP Control (RJ-45) 1 x USB2.0 (Type-A) 5 x IR Extender (3.5mm) 5 x IR Blaster (3.5mm)

Interfaces (Receiver)

Input Ports	1 x CAT5e/6/7 (RJ-45)
Output Port	1 x HDMI (Type-A)
Pass-through Port	1 x IR Extender (3.5mm) 1 x IR Blaster (3.5mm) 1 x RS-232 (3.5mm)

Video

HDMI Compliance	2.0 (DVI 1.0)
HDCP Compliance	2.2
Input Signal Types	HDMI 4K@60 YUV 4:4:4
Output Signal Types	Cat5./6/7 4K@60 YUV 4:4:4

Resolutions

Maximum Input	HDMI 4096×2160p@60
Maximum Output	Cat5e/6/7 4096×2160p@60

Audio

HDMI	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
HDBT	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
Line Out	2 Vrms S/N Ratio: > 80dB (1kHz with 0dBFS)

Power

Power Supply	[Matrix] 24V/6.25A, [RX] PoH
Power Consumption	[Matrix] 2W, [RX] 9.8W

Enclosure

Chassis Material	Metal (Steel)
Chassis Colour	Black
Dimensions (W×H×D)	[Matrix] 438mm×44mm×270mm (Case Only) [Matrix] 482mm×49mm×279mm (All Inclusive) [RX] 128mm×25mm×108mm (W×H×D) [Case Only] [RX] 128mm×25mm×117mm (W×H×D) [All Inclusive]
Weight	[Matrix] 3.642kg, [RX] 386g

ORDERING INFORMATION

Model No.	Product Description
PUV-44XPL-AVLC	4 x 4 HDMI Full 4K HDBase1 LITE Matrix with AVLC & Audio De-embedding
PUV-1710LRX-AVLC	HDBaseT1 LITE Full 4K AVLC Series Receiver with PoH