CPLUS-1082VA

UHD$^+$ 10×10 HDMI/HDBaseT Matrix with AVLC & Audio Matrixing

As many as ten UHD sources may be routed to any of eight HDBaseT outputs (up to 100m at 1080p or up to 70m at 4K) or two HDMI outputs at resolutions up to 4K@60Hz (8-bit, 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 needed. The HDMI outputs can also be set to mirror any of the HDBaseT outputs for local monitoring.

Beyond basic video routing, this unit also incorporates an independent audio matrix with 14 audio outputs and 10 audio inputs. Offering discrete audio routing, insertion and extraction, this product makes it easy to have multiple audio zones within your installation. Four additional analog audio outputs are available to provide stereo breakout audio from the associated HDBaseT output (LPCM 2.0 only).

Integrated LAN support allows your 100BaseT network to be extended across compatible HDBaseT Receivers to smart TVs or projectors. Internally generated test patterns (up to 1080p) are provided to assist with setup, providing a simple way to verify both matrix and sink functionality. The PoH (Power over HDBaseT) functionality provides remote power to compatible HDBaseT Receivers, providing greater flexibility in your installations. Control is via front panel buttons with OLED menu, WebGUI, Telnet, RS-232 or IR remote.

FEATURES

- Routes ten HDMI sources to ten displays using eight HDBaseT outputs and two independent or mirrored HDMI outputs
- Supports Deep Color input and output up to 12-bit
- Supports 10-bit and 12-bit HDR bypass
- Supported HDBaseT feature set: HD Video & Audio, 100BaseT Ethernet, 48V PoH, and Control (Bidirectional IR/RS-232 pass through)
- All HDBaseT outputs support OAR (Optical Audio Return)
- 4K signals can be transmitted up to 70m via Cat.5e/6 and up to 100m via Cat.6a/7
- Supports pass-through of these standard digital audio formats via HDMI/HDBaseT: LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Advanced DAC (Digital to Analog Conversion) and ADC (Analog to Digital Conversion) for audio integration
- Supports integrated audio over CAT inputs and outputs for transmission 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
- Audio mixer functionality (three mixers in total)
- Advanced internal and external EDID management with 4 sets of configurable EDID settings
- Internal test pattern generation (up to 1080p) for self and sink testing
- 2U rack mounted design
- Control via front panel buttons with OLED menu, Ethernet (Telnet & WebGUI), RS-232, and IR remote

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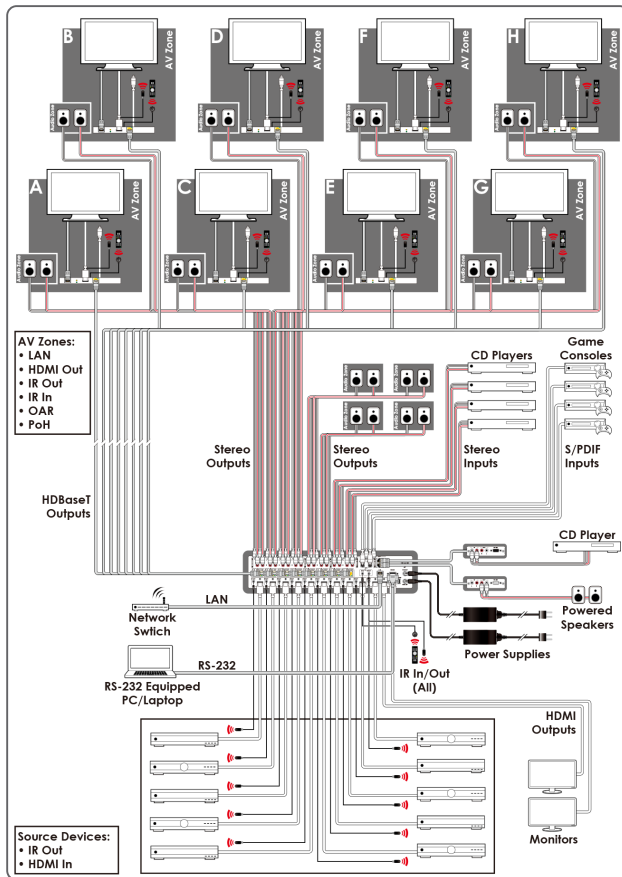UHD+ 10×10 HDMI/HDBaseT Matrix with AVLC & Audio Matrixing

PANELS

Front View

Rear View

DIAGRAM

SPECIFICATIONS

Interfaces

Input Port	10 HDMI 2 Digital S/PDIF (TOSLINK) 2 Digital S/PDIF (RCA) 4 Analog Stereo (3.5mm)
Output Port	2 HDMI 8 HDBaseT (RJ-45) 12 Analog Stereo (24 RCA)
Bidirectional Port	2 Digital S/PDIF or Analog Stereo (RJ-45)
Pass-through Port	11 IR Blaster (3.5mm) 9 IR Extender (3.5mm)
Control I/O	1 LAN (RJ 45)
Service Port	1 USB (Type-A)

Video

HDMI Compliance	HDMI 2.0 (DVI 1.0)	
HDCP Compliance	2.2	
Input Signal Type	4K@60 8-bit YUV 4:4:4, HDR10	
Output Signal Type	4K@60 8-bit YUV 4:4:4, HDR10	
Maximum Input Resolutions	HDMI	4096×2160p@50/60 YUV 4:4:4
	HDBaseT	4096×2160p@50/60 YUV 4:4:4
Maximum Output Resolutions	HDMI	4096×2160p@50/60 YUV 4:4:4
	HDBaseT	4096×2160p@50/60 YUV 4:2:0

Audio

HDMI	LPCM 8 Channels, Bitstream, HD Bitstream
S/PDIF	LPCM 2 Channels
Line Level	Frequency Response: $< \pm0.5$dB (20Hz to 20kHz) THD: $< 0.01\%$ (20Hz to 20kHz) S/N Ratio: > 90dB (1kHz with 0dBFS) Crosstalk: < -90dB (10kHz, Vin=0dBFS)

Communications

Ethernet	10/100Mbps
Infrared	2-way device control
Serial	1-way device control
USB	Firmware update

Power

Power Supply	24V/6.25A DC
Power Consumption	236W

Enclosure

Chassis Material	Metal (Steel)
Chassis Color	Black
Dimensions (W×H×D)	438mm×88mm×316mm [Case Only] 483mm×96mm×356mm [All Inclusive]
Weight	6,500g
Rackmount Size	2U

Field Firmware Update

USB Flash Drive, USB to PC, RS-232, WebGUI

ORDERING INFORMATION

Model No.	Product Description
CPLUS-1082VA	UHD+ 10×10 HDMI/HDBaseT Matrix with AVLC & Audio Matrixing
CH-1529RXV	HDMI over HDBaseT Receiver with LAN, PoH, IR, RS-232