PULSE**EIGHT**

TECHNICAL SPECIFICATIONS

neo:X+ 8x10 HDBaseT Video & Audio Matrix

8 HDMI INPUTS | 8 HDBASET CLASS C OUTPUTS | 2 HDMI OUTPUTS | FULL AUDIO MATRIX



Made in partnership with Binary, the Pulse-Eight neo:X+ Video & Audio Matrix has it all - with both audio and video inputs and video and audio outputs. Featuring 8 HDMI inputs, 8 HDBaseT Outputs and 2 HDMI outputs alongside 10 audio output zones (with the options of Stereo L/R, Optical and Digital Coax) and 4 audio inputs (with the option of Optical and Digital Coax).

The neo:X+ goes the distance, supporting up to full 4K/60, 4:4:4, 8bit or 4K/60 4:2:2, 12bit up to 100 meters (330 feet). With audio breakout, Dolby Digital compliance and multiple video control methods.

Pulse-Eight have been designing and manufacturing their own products in the UK since 2010 and have created industry leading HDBaseT and HDMI products including matrices, splitters and extender sets alongside video and audio accessories that add vital connection and manipulation abilities to the installers' tool box.

KEY FEATURES

True 4K UHD

The best possible image quality is a key element to video distribution – the neo:X+ boasts Best-in-Class lossless video with full 4K/60Hz 4:4:4 UHD in any zone at any time.

HDR & HLG Support

Full 4K/60Hz 18Gbps with HDR and HLG ensures dynamic resolutions on even the latest displays from the latest providers without compromising the quality of the input.

DSC Visually Lossless Compression

Using the latest technology to distribute a true 4K UHD, DSC (Display Stream Compression) is a visually lossless 4K low latency video stream allowing for a full-colour gamut to the display. Unlike other compressions, DSC preserves the 10-bit or 12-bit HDR signals rather than reduce to 8-bit then reproduce. This produces the most accurate picture quality available today.

HDMI 2.0 Extension

Extending the latest technology is paramount and this includes the latest HDMI 2.0. Utilizing up to 18.0 Gbit/s speed, it is capable of handling 4K video at 60 Hz with 4:4:4, 4:2:2 and 4:2:0 chroma subsampling with relative ease. With the added support for High Dynamic Range (HDR), displays are reproduced with higher luminance and accurate colour saturation.

Control HDMI CHOBIT HDCP22 DIDolby Audio

OVERVIEW

- Ultra HD 4K Video Transmission, up to 18Gbps
- Extend 4K up to 100 meters
- 8 x HDMI Inputs
- 4 Audio Inputs
- 8 x HDBaseT Class C + DSC (Ultra) Outputs
- 2x HDMI Outputs
- 10 Audio Output Zones
- Stereo output with support for Dolby Digital (5.1) downmix
- Amazon Alexa Voice Control
- libCEC for HDMI-CEC Bi-Directional Control
- Bi-Directional IR Control
- Set Top Box IP Control
- Responsive Web Interface
- DSC support for HDR and 4K/60 4:4:4, 8 bit or 4K/60 4:2:2, 12bit over HDBaseT[™]
- ARC (Audio Return Channel)



SPECIFICATIONS

Video Innuts	8 x HDMI
Video Inputs	
Video Outputs	8 x HDBaseT + 2 HDMI (10 switchable outputs)
HDMI Compliance	HDMI 2.0 a/b
HDCP Compliance	up to 2.3
Input TMDS Signal	6Gbps per data lane (18Gbps total)
Bandwidth	18.0 Gbps
CEC	Yes - Bidirectional
Extender Technology	HDBaseT 2.0 (PoH compliant)
HDBaseT Connections	8
Transmission Distance	4K up to 100m (330ft)
Supported Video Resolutions	All 4K formats up to 4K* (4:4:4), 1080p, 1080i, 720p, 576p, 480p @24/25/30/50/59.94/60Hz. (*4K resolution limited to 3840 x 2160 over HDBT)
Chroma Subsampling	YCbCr4:4:4, YCbCr2:2, YCbCr4:2:0, RGB
Colorspace	YUV (rec. 601, rec709, rec2020), RGB
Color Depth	8-bit, 10-bit, 12-bit
Video Features	HDR10/HLG @ 60Hz and Dolby® Vision™ @ 30Hz
Audio Inputs	4 x digital coax, 4 x optical
Audio Outputs	10 x digital coax, 10 x optical, 10 x analog (stereo)
Stereo Output	Yes - Dolby Downmix support
IR Inputs to Room	Yes
IR Outputs to Source	Yes
IR Receivers	Supports Episode IR Receivers (not included)
IR Flashers	Supports Episode IR Flashers (not included)
Ethernet Ports	1 x RJ45 (control and extension)
Available On Internet	Yes, thru the Pulse-Eight's Remote Monitoring Portal
RS-232 Ports	8 x mini-phoenix (3pin)
LED Indicators	Front - 3 LEDs (System Health , Network, Cloud Monitoring) Back - Various (port and signal connectivity status)
Operating Humidity	5 to 90% RH (no condensation)
Operating Temperature	0 to +35°C (32 to +95°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Power Input	IEC C14 socket
Power Rating	100-240V, 4.0/2.0A, 50/60Hz
Surge Protection	AC Input: IEC61000-4-5 (class 3).
Rack Spacing	3U
Certifications	UKCA, CE, FCC (SDoC), RoHS
ESD Protection	Human Body Model: 15kV air, 8kV contact
Included Accessories	Rack mounting accessories, Terminal blocks (3-pin socket), Power cable.
Dimensions	17.32" x 12.44" x 5.20"
Weight	10.80 lbs
Box Dimensions	22.83" x 14.72" x 7.01"
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