CAT-Linx HDBaseT Endpoints

Add the power of HDBaseT to Linx and Omniwall Systems

RGB Spectrum's CAT-Linx™ products use HDBaseT™ technology to transmit HDMI and DVI signals up to 100 meters between Linx Matrix Switcher I/O cards and endpoints. Distances of up to 150 meters are possible with CAT-Linx TX and RX endpoint pairs.

Powered Endpoints

With integrated Power-over-HDBaseT (PoH) capabilities, CAT-Linx I/O cards supply power to endpoints over the same CAT6 cable that carries video and data signals. This eliminates the need for external power connections. All models of Linx switchers offer sufficient power capacity to support PoH endpoints on every channel simultaneously.

CAT-Linx TX endpoints are as wall plates and standalone units. CAT-Linx wall plates fit a standard single gang Decora panel and support HDMI with embedded audio. CAT-Linx standalone TX units add support for serial data via RS-232.

RX endpoints are available as standalone units. To simplify installation, both TX and RX endpoints are available as either PoH line powered (TPS / RPS) or externally powered models (TPD / RPD). The expanded range enables an endpoint pair to be powered by either the transmit unit or the receive unit.

Flexibility and Performance

In Long Reach Mode, standalone TX and RX endpoint pairs, consisting of one externally powered endpoint and one PoH powered endpoint, can extend transmission of 1080p signals up to 150 meters. Standard Mode provides support for 4K signals, including digital cinema formats.

Bidirectional transmission of RS-232 signals between CAT-Linx endpoints and Linx I/O cards enables touch screens or PC control of processors or displays. This eliminates the need for IP connectivity between a system controller and equipment, simplifying installation.

CAT-Linx products meet the specifications of the HDBaseT Alliance and are compatible with other HDBaseT-certified products. Additional models of CAT-Linx I/O cards (for inputs or non-scaled outputs) are compatible with OmniWall 16 and OmniWall 32 display processors.

Combined with existing choices for copper and fiber transmission, CAT-Linx products further expand the flexibility of Linx switchers and provide a cost effective signal extension option for RGB Spectrum's display processors.

HDMI with audio and RS-232 extended up to 150 meters over CAT6 cable

Endpoints powered by PoH from Linx Switcher I/O cards

PoH from either TX or RX end with standalone endpoint pairs

Supports RS-232 up to 115k baud rate

Standalone and wall plate formats

Supports resolutions up to 4K

Front : CAT WPD
Wall Plate Transmitter

Front : CAT TPD Transmitter

Front : CAT RPS Receiver

Back : CAT TPD Transmitter

Back : CAT RPS Receiver

Available Models

Part Number	Description
CAT TPD	HDBaseT remotely powered transmitter (PD) with HDMI/DVI/RS-232
CAT RPD	HDBaseT remotely powered receiver (PD) with HDMI/DVI/RS-232
CAT WPD	HDBaseT remotely powered wall plate transmitter (PD) with HDMI/DVI
CAT TPS	HDBaseT locally powered transmitter (PSE) with HDMI/DVI/RS-232
CAT RPS	HDBaseT locally powered receiver (PSE) with HDMI/DVI/RS-232

Specifications

	CAT TPD / TPS*	CAT RPD / RPS*	CAT WPD
Signal Type	HDMI / Serial	HDMI / Serial	HDMI
Pixel Clock Rate	25 MHz - 165 MHz	25 MHz - 165 MHz	25 MHz - 165 MHz
Maximum Resolution	1920x1200/72	1920x1200/72	1920x1200/72
Connectors	HDMI/RJ-45/DB-9	HDMI/RJ-45/DB-9	HDMI/RJ-45
Weight	<1 lb	<1 lb	<1 lb
Power Consumption	3.5 watts	5.5 watts	3.5 watts
Physical Size (H x W x D)	1.18 x 4.13 x 4.57 inches 30 x 105 x 116 mm	1.18 x 4.13 x 4.57 inches 30 x 105 x 116 mm	4.88 x 3.13 x 3.10 inches 123.8 x 79.4 x 78.7 mm when mounted in single gang Decora plate Depth excludes connectors
* Includes 3.5 mm power jack			
Audio	All HDMI embedded audio including: LPCM 7.1CH, Dolby TrueHD and DTS-HD Master Audio (32-192KHz sample rate)		
DDC	Pass-through DDC for reading EDID directly from remotely connected LCD and HDCP handshake		
RS-232	Bidirectional (full-duplex); any baud rate up to 115,200		
PoH	Power over HDBaseT meets IEEE 802.3af standard. PD side identifies as Class 2 (3.84–6.49 watts). Actual power consumption of PD side is 5.5 watts max		
Power Supply	100 VAC to 240 VAC, 50-60 Hz, external; 5 VDC, 3.2 A, regulated (for CAT-RPS / TPS only)		
Actual DC Current	1.8A max (powering both –PSE and –PD sides)		
Mounting	End plates have L bracket with hole for surface mounting, except CAT WPD		
Enclosure	Metal (aluminum ends, aluminum extrusion), except CAT WPD		
Mounting CAT WPD	Standard Decora mounting; for wall box, a metal double gang is recommended for cooling considerations		
Enclosure CAT WPD	Metal		
Operating Temp.	+32 to +122 °F (0 to +50 °C)		
Storage Temp.	- 40 to +158 °F (-40 to +70 °C)		
Humidity	10% – 90% RH, non-condensing		
Safety	CE		
EMI/EMC CE	FCC Class A		
MTBF	90,000 hours (calculated estimate)		
Cable	Category 6 Required		

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