

# **The Complete HDBase-T Signal Extension System**

**CAT-Linx 2**

**Transmit & Receive Units**

**Power Distribution Unit**

**Wall Plate Transmitter**

**Rackmount Shelf**

**Mounting Brackets**



# CAT-Linx™ 2 Signal Extenders

## Rated for 4K UltraHD 60

RGB Spectrum offers a completely integrated solution for extending signals, at up to 4K UHD resolution, using convenient HDBaseT transmission. Our turnkey HDBaseT extension solution streamlines AV system integration by simplifying system component sourcing while providing assured compatibility, top-level performance & 24/7 reliability.

### Everything you need for a complete end-to-end HDBaseT signal extension solution

- CAT-Linx 2 extenders - stand alone and wall plate models
- PDU 400-12 power distribution unit
- CAT RAK rackmount kit

CAT-Linx 2 extenders transmit 4K UltraHD (60Hz) and HD signals over long distances using conventional CAT 5e/6 cable. The units can transmit HD signals up to 100 meters and 4K UltraHD signals up to 70 meters. Transmit (TX) and Receive (RX) endpoints are compatible with all RGB Spectrum products as well as AV devices from other manufacturers.

### CAT-Linx 2 TX & RX Transmitter & Receiver

- 4K Ultra HD (60Hz) signals over conventional CAT 5e/6 cable
- 4K/60Hz output up to 100m, 1080P up to 140m over Cat6a/7 cable
- 4K/60Hz output up to 70m, 1080P up to 100m over Cat5e/6 cable
- IR, serial and Ethernet control of displays and other AV devices
- Integrated Power-over-HDBaseT (PoH)
- CEC pass through
- HDCP 2.2



For installation ease and convenience, CAT-Linx 2 extenders have integrated power (PoH) to supply endpoints over the same CAT5e/6 cable that carries the video and data signals. This eliminates the need for external power connections. A CAT-Linx 2 pair needs only one power supply connected to either the transmitter or the receiver end to power both devices. The CAT-Linx 2 TX also offers embedded HDMI audio and VGA analog stereo switching input.

CAT-Linx 2 extenders offer a bevy of advanced features, including HDCP 2.2 compatibility, Dolby and DTS HD audio support and serial, IR and Ethernet control of display devices. The extenders can control a source from a display's location or control a display from a source's location.

CAT-Linx 2 HDBaseT extenders are a high-performance, feature-rich, and cost effective solution for 4K UHD and HD signal extension.

## PDU 400-12 12-Channel Power Distribution Unit

RGB Spectrum's Power Distribution Unit streamlines AV project integration, making it simpler, easier and faster than ever before to power up a variety of devices. Say goodbye to rack cable clutter and wall warts.

The convenient PDU 400-12 400-watt Power Distribution Unit provides 12 channels of 12-VDC power in a rugged, 1RU rack mountable enclosure. It is designed for 24/7 reliability, allowing system designers and facility managers to optimize power management.

The PDU 400-12 integrates with RGB Spectrum's Zio™ networked AV products, CAT-Linx 2 HDBaseT extenders, and AV devices from other manufacturers. Versatile and reliable Phoenix connectors allow for ease of use with a wide variety of devices that require 12-VDC power.

The PDU 400-12 is an ideal power distribution solution for all professional AV applications.

- Up to 25W per channel
- 12-ports with 12V DC per port
- 400W total load
- Phoenix connectors
- Auto-senses and accepts line voltages from 88 to 264 volts AC
- Overload, over-voltage, and over-temperature protection
- Unique Power Factor Correction (PFC) circuit to minimize input current harmonics



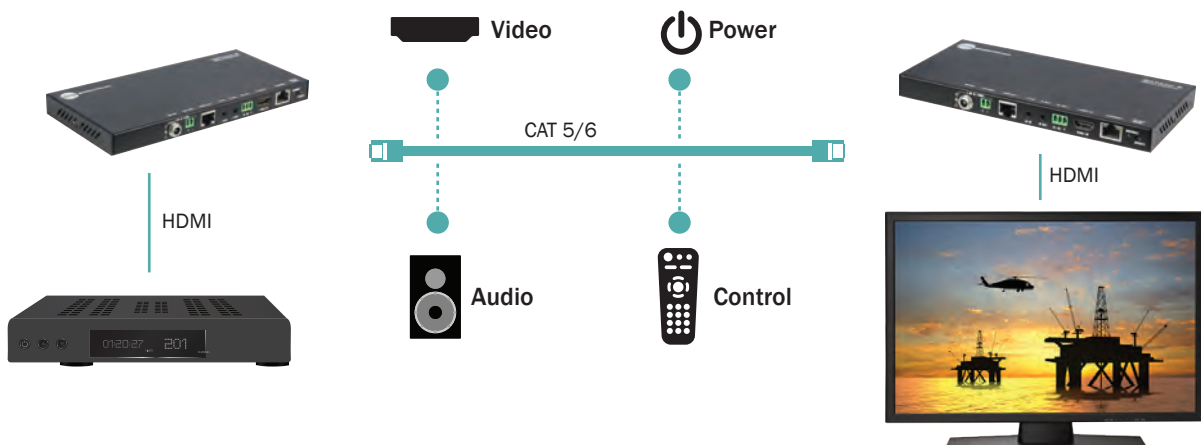
## CAT RAK Rackmount Kit

The CAT RAK is a 6 RU rackmount shelf for up to 10 CAT-Linx 2 units. This convenient shelf allows each endpoint to be securely mounted in a vertical orientation. The PDU 400-12 Power Distribution Unit mounts above or below to provide power directly to all endpoints mounted in the rack.

- Holds up to 10 CAT-Linx 2 TX or RX units
- Made from sturdy 18-gauge steel
- Use with PDU 400-12 Power Distribution Unit



## Why HDBaseT? Video, Audio, Power and Control Over a Single Line



## CAT-Linx 2-TX/RX Specifications

Specifications subject to change.

### Video

Input Signal Type	HDMI 1.4 with HDCP 2.2
Maximum Signal Resolution	4096x2160@60Hz, 3840x2160@60Hz
Color Space & Sampling	4:4:4 (4096x2160@30Hz, 3840x2160@30Hz, 2K@60Hz, HD@60Hz) 4:2:0 (4096x2160@60Hz, 3840x2160@60Hz)
Input Video Level	0.5~1.0V V p-p
Maximum Pixel Clock Rate	297 MHz
Transport Signal Type	HDBT
Video Impedance	100 ohms
Transmission Distance	Cat 5e/6 cable: 3840x2160 to 70m; 1080P to 100m Cat 6a/7 cable: 3840x2160 to 100m; 1080P to 100m

### Audio

Audio Input	HDMI Embedded
Audio Formats	HDMI: Stereo, LPCM 5.1, LPCM 7.1; Dolby True HD, DTS-HD Master Audio VGA: Stereo

### Control

Control Method	RS-232, Ethernet
External Device Control	Via IR (IR Emitter & Receivers included), RS-232 & Ethernet

### General

Operating Temperature	0 to + 45 °C (32 to + 113 °F)
Storage Temperature	-20 to +70 °C (-4 to + 158 °F)
Humidity	10% to 90%, non-condensing
Power Supply	12V, 1.5A DC
Product Dimension (WxDxH)	6.8 x 3.74 x 0.7 in (173 x 95 x18mm)
Product Weight	1.0 lbs (0.45 kg)

## PDU 400-12 Specifications

### General

DC Power Outputs	12x
Output Voltage	12 VDC
Total Output Power	400 watts
Maximum Power per Output	25 watts
Maximum Current per Output	2.0A
Maximum AC Current (115/230 VAC)	2.5A / 1.3A
AC Line Input Voltage Range	88 - 264 VAC
AC Line Input Frequency Range	47 - 63 Hz
AC Power Input Connector	IEC C14 power connector
DC Power Output Connectors	2-pin, 3.5 mm pitch Phoenix connectors
Rack Height	1U, 1/2 rack width
Product Dimensions (W x H x D)	17.25 in. x 1.75 in. x 12.25 (438 mm x 44 mm x 311 mm)
Product Weight	9.7 lbs. (4.4 kg.)
Compliance	FCC, CE, RoHS, UL

### Protection

Overload	105 - 135% rated output power
Over Temperature	Shut down output voltage, recovers automatically after temperature goes down

### Environmental

Working Temperature, Humidity	-22° to +113° F (-30° to +45° C), 20 - 90% relative humidity (non-condensing)
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## CAT RAK Specifications

### Physical

Product Dimension (HxWxD)	10.4 x 19.1 x 4.3 in (265 x 484 x 109 mm)
Product Weight	7.2 lbs (3.2 kg)



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