The Complete HDBaseT 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 complete integration solution for extending signals, at up to 4K UHD resolution, using convenient HDBaseT transmission. Our turnkey signal extension solution streamlines AV system integration. It simplifies system component sourcing while providing assured compatibility, top-level performance and 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
- Wall/table mounts

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
• HDCP 2.2
• Integrated Power-over-HDBaseT (PoH)
• IR, serial and Ethernet control of displays and other AV devices
• CEC pass through

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 Wall Plate Transmitter receives its PoH power from a CAT-Linx 2 RX receiver.

The CAT-Linx 2 TX Wall Plate Transmitter provides both HDMI and VGA analog input with automatic input recognition and switching. 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.

**Why HDBaseT?**

**Video, Audio, Power and Control Over a Single Line**

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

CAT RAK Specifications

**Physical**

<table>
<thead>
<tr>
<th>Product Dimension (HxWxD)</th>
<th>10.4 x 19.1 x 4.3 in (265 x 484 x 109 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Weight</td>
<td>7.2 lbs (3.2 kg)</td>
</tr>
</tbody>
</table>

Wall/Table Mount

A CAT-Linx 2 Wall/Table Mount is available for CAT-Linx 2 TX/RT endpoints to provide an affordable, convenient way to affix CAT-Linx 2 units to walls and tables. The self-supporting CAT-Linx 2 Wall/Table Mount provides easy cable-management access.
## CAT-Linx 2 Specifications

<table>
<thead>
<tr>
<th></th>
<th>CAT-Linx 2-TX/RX</th>
<th>CAT-Linx 2-TX Wall Plate Transmitter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Signal Type</td>
<td>HDMI 1.4 with HDCP 2.2</td>
<td>HDMI 1.4 with HDCP 2.2, VGA</td>
</tr>
<tr>
<td>Maximum Signal Resolution</td>
<td>4096x2160@60Hz, 3840x2160@60Hz</td>
<td>HDMI: 3840x2160@60Hz, VGA: 1920x1200@60Hz</td>
</tr>
<tr>
<td>Color Space &amp; Sampling</td>
<td>4:4:4 (4096x2160@30Hz, 3840x2160@30Hz, 2K@60Hz, HD@60Hz)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4:2:0 (4096x2160@60Hz, 3840x2160@60Hz)</td>
<td></td>
</tr>
<tr>
<td>Input Video Level</td>
<td>0.5~1.0V p-p</td>
<td>0.5~1.0V p-p</td>
</tr>
<tr>
<td>Maximum Pixel Clock Rate</td>
<td>297 MHz</td>
<td>297 MHz</td>
</tr>
<tr>
<td>Transport Signal Type</td>
<td>HDBT</td>
<td>HDBT</td>
</tr>
<tr>
<td>Video Impedance</td>
<td>100 ohms</td>
<td>100 ohms</td>
</tr>
<tr>
<td>Transmission Distance</td>
<td>Cat 5e/6 cable: 3840x2160 to 70m; 1080P to 100m</td>
<td>Cat 6a/7 cable: 3840x2160 to 100m; 1080P to 100m</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio Input</td>
<td>HDMI Embedded</td>
<td>1x3.5mm mini jack</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(binding with VGA input)</td>
</tr>
<tr>
<td>Audio Formats</td>
<td>HDMI: Stereo, LPCM 5.1, LPCM 7.1; Dolby True HD, DTS-HD Master Audio</td>
<td>VGA: Stereo</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Control</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control Method</td>
<td>RS-232, Ethernet</td>
<td>Input Selection Panel, RS-232, Ethernet</td>
</tr>
<tr>
<td>External Device Control</td>
<td>Via IR (IR Emitter &amp; Receivers included), RS-232 &amp; Ethernet</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to + 45 °C (32 to + 113 °F)</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 to +70 °C (-4 to + 158 °F)</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>10% to 90%, non-condensing</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>12V, 1.5A DC</td>
<td>12VDC / PoH</td>
</tr>
<tr>
<td>Product Dimension (WxDxH)</td>
<td>6.8 x 3.74 x 0.7 in (173 x 95 x18mm)</td>
<td>4.16 x 1.16 x 3.58 in (106 x 29 x 91 mm)</td>
</tr>
<tr>
<td>Product Weight</td>
<td>1.0 lbs (0.45 kg)</td>
<td>0.5 lbs (0.22 kg)</td>
</tr>
</tbody>
</table>

## PDU 400-12 Specifications

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
</tr>
<tr>
<td>DC Power Outputs</td>
<td>12x</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>12 VDC</td>
</tr>
<tr>
<td>Total Output Power</td>
<td>400 watts</td>
</tr>
<tr>
<td>Maximum Power per Output</td>
<td>25 watts</td>
</tr>
<tr>
<td>Maximum Current per Output</td>
<td>2.0A</td>
</tr>
<tr>
<td>Maximum AC Current (115/230 VAC)</td>
<td>2.5A / 1.3A</td>
</tr>
<tr>
<td>AC Line Input Voltage Range</td>
<td>88 - 264 VAC</td>
</tr>
<tr>
<td>AC Line Input Frequency Range</td>
<td>47 - 63 Hz</td>
</tr>
<tr>
<td>AC Power Input Connector</td>
<td>IEC C14 power connector</td>
</tr>
<tr>
<td>DC Power Output Connectors</td>
<td>2-pin, 3.5 mm pitch Phoenix connectors</td>
</tr>
<tr>
<td>Rack Height</td>
<td>1U, 1/2 rack width</td>
</tr>
<tr>
<td>Product Dimensions (W x H x D)</td>
<td>17.25 in. x 1.75 in. x 12.25 (438 mm x 44 mm x 311 mm)</td>
</tr>
<tr>
<td>Product Weight</td>
<td>9.7 lbs. (4.4 kg.)</td>
</tr>
<tr>
<td>Compliance</td>
<td>FCC, CE, RoHS, UL</td>
</tr>
<tr>
<td><strong>Protection</strong></td>
<td></td>
</tr>
<tr>
<td>Overload</td>
<td>105 - 135% rated output power</td>
</tr>
<tr>
<td>Over Temperature</td>
<td>Shut down output voltage, recovers automatically after temperature goes down</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Working Temperature, Humidity | -22° to +113° F (-30° to + 45° C), 20 - 90% relative humidity (non-condensing) | Specifications subject to change.