3x1 HDMI/VGA/DP Switching Extender with Scaling Receiver, Relay Triggering and HDCP 2.2

**EX-SW-0301-H2**

**Introduction**

Hitting a sweet-spot between the 2-input and 4-input presentation switcher/extender products, the 0301 is a powerful HDBaseT™ extender with support for VGA, HDMI & DP inputs at the transmitter but also a 4th source local to the scaling receiver. Condition-based relays and support for HDCP 2.2 wrap up this formidable package.

**Key Features**

- 3-input switcher & HDBaseT extender perfect for education or huddle room environments
- HDMI, DisplayPort and VGA inputs with automatic or manual switching
- 2x automatic (condition based) or manually triggered relays on receiver for projector screen or curtain control
- Receiver automatically scales content to match capability of connected TV or projector
- Class B HDBaseT Transmission to 35m/115ft@4K and 70m/230ft@1080p
- HDMI input on receiver for connection of additional source device, such as a signage player when a room is not in use
- Line level audio output on receiver
- PoH from receiver to transmitter means less clutter & cables on desk
- Compatible with latest 4K/60 4:2:0 source devices
- HDCP2.2 compliant
- Control via Ethernet port (TELNET) on RX, RS-232 or front panel buttons
- Slim chassis design means easy and discreet device placement

**In the Box**

1x EX-SW-0301-H2 Transmitter
1x EX-SW-0301-H2 Receiver
1x AC 100-240V 50/60Hz to DC 12V Power Adapter

5x 3-pin Phoenix Connectors
4x Mounting Brackets
1x Quickstart Guide

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EX-SW-0301-H2 Specification Sheet | 180503

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### Audio and Video

#### Inputs
- 1x VGA In: 15-pin VGA
- 1x Display Port In: DisplayPort 1.3
- 1x HDMI In: 19-pin type A

#### Outputs
- 1x HDBT Out (Class A): 8-pin RJ-45 Female

#### Output Video Encoding
- HDBaseT Class B

#### Encoding Data Rate
- 9.2Gbps

#### End to End Latency
- 10μs (micro seconds)

#### Audio Formats
- 2ch Analog/PCM | Multichannel: LPCM

#### Video Resolutions (Max)

<table>
<thead>
<tr>
<th>Video Resolution</th>
<th>HDMI</th>
<th>Cat6</th>
<th>Cat6a/7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1200p @60Hz 12bit</td>
<td>15m/49ft</td>
<td>60m/197ft</td>
<td>70m/230ft</td>
</tr>
<tr>
<td>1920x1080p @60Hz 12bit</td>
<td>15m/49ft</td>
<td>60m/197ft</td>
<td>70m/230ft</td>
</tr>
<tr>
<td>3840x2160p @30Hz 8bit 4:4:4</td>
<td>7m/23ft</td>
<td>35m/115ft</td>
<td>40m/131ft</td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:2:0</td>
<td>7m/23ft</td>
<td>35m/115ft</td>
<td>40m/131ft</td>
</tr>
</tbody>
</table>

#### Supported Standards
- DCI | RGB

#### Maximum Pixel Clock
- HDMI: 600mHz | HDBaseT: 297MHz

### Communication and Control

#### HDMI
- HDMI | HDCP 2.2 | EDID | DVI/D supported with adapter (not included)

#### HDBaseT
- HDMI | HDCP 2.2 | EDID | 1-way PoH Receiver to Transmitter

#### Ethernet
- 1x 8-pin RJ-45 female | IP Control (TELNET)

#### RS-232
- 1x RS-232: 3-pin Phoenix (Transmitter and Receiver)

#### Relays
- 2x Relay: 3-pin Phoenix (Receiver Only)

### Power

#### Power Supply
- 12V DC 3A

#### PoH
- IEEE 802.3af 15.4 W Max

#### Max Power Consumption
- Transmitter: 7W | Receiver: 17W

### Environmental

#### Operating Temperature
- 0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing

#### Storage Temperature
- -20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing

#### Maximum BTU
- Transmitter: 24 BTU/hr | Receiver: 58 BTU/hr

### Dimensions and Weight

<table>
<thead>
<tr>
<th>Transmitter</th>
<th>Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Units/Wall Box</td>
<td>&lt;1U</td>
</tr>
<tr>
<td>Height With</td>
<td>20mm/0.79in</td>
</tr>
<tr>
<td>Height Without Feet</td>
<td>20mm/0.79in</td>
</tr>
<tr>
<td>Width With</td>
<td>194mm/7.64in</td>
</tr>
<tr>
<td>Width Without Brackets</td>
<td>194mm/7.64in</td>
</tr>
<tr>
<td>Depth With</td>
<td>94mm/3.71in</td>
</tr>
<tr>
<td>Depth Without Handles</td>
<td>94mm/3.71in</td>
</tr>
<tr>
<td>Weight</td>
<td>0.5kg/1.1lbs</td>
</tr>
</tbody>
</table>

### Regulatory

- CE | FCC | RoHS
Right Product for the Right Application.