



HDMI 4x4 Matrix Switch HDBT, POE 500416-POE-US, 500416-POE-UK, 500416-POE-EU

Overview

The HDMI 4x4 Matrix Switch, HDBT (500416-POE) allows up to four (4) different HDMI sources to be connected and/or distributed to up to four (4) HDMI displays via Cat5e/6 unshielded twisted pair cable. The product works in conjunction with MuxLab's HDMI receivers (500454-RX, 500454-POE-RX) supporting up to 230 ft (70m) at all resolutions up to 1080p via Cat5e cable. Management functions include pushbutton, IR, USB, RS232 and webserver interface.



Applications

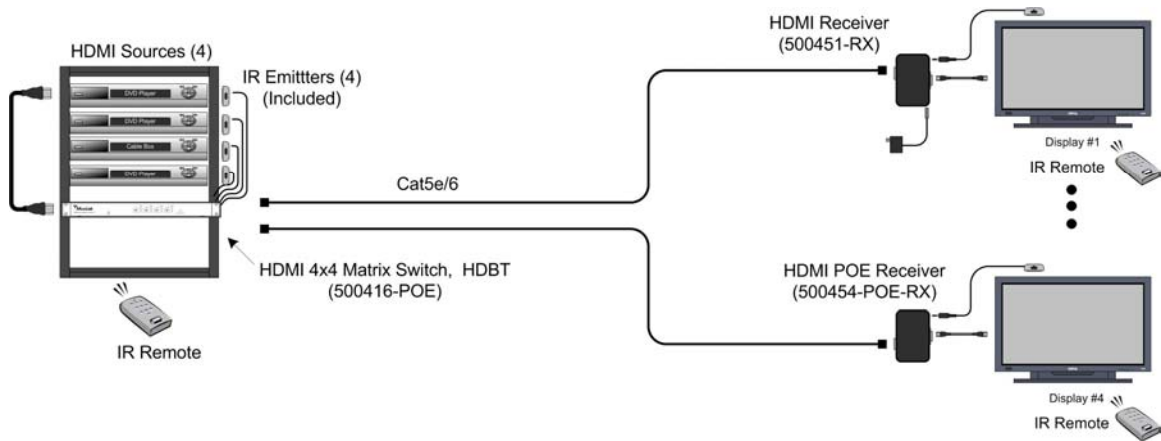
Commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, medical video systems.

Key Features

HDBaseT switching via one (1) Cat5e/6
Up to 230 ft (70m) @ 1080p via Cat5e
Works with 500451-RX, 500454-RX
Supports POE when used with 500454-POE-RX
Control: pushbutton, IR, USB, RS232, Webserver
Supports IR matrix and source control
Includes four IR emitters plus wireless remote

| Specifications | | | | | | | | | | | | |
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| Environment | HDMI 1.4A, 3D Support. HDBaseT | | | | | | | | | | | |
| Devices | LCD and Plasma TVs, DVD and Blu-Ray players, monitors, projectors, PCs, laptops, home theatre systems, home theatre PCs, game consoles, servers that support HDMI. | | | | | | | | | | | |
| Transmission | Transparent to the user | | | | | | | | | | | |
| Matrix Switching Time | 3 seconds (maximum) | | | | | | | | | | | |
| Connectors | Input:: Four (4) HDMI and four (4) IR sensors (3.5mm stereo) Output: Four (4) HDBaseT (RJ45) and four (4) IR emitters (3.5mm mono) | | | | | | | | | | | |
| Connectivity | Ethernet LAN (RJ45), USB (Type B) and RS232 (DB9) | | | | | | | | | | | |
| Maximum Distance | UTP/STP Cat 5e/6 output port: 230 feet (70m) | | | | | | | | | | | |
| HDMI Switch to Display | <i>NOTE: STP cables must be used in an electrically noisy environment. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.</i> | | | | | | | | | | | |
| RJ45 Pin Configuration | <table border="0"> <tr> <td>RJ45 A (HDMI A)</td> <td>RJ45 B (HDMI B)</td> <td rowspan="5"> </td> </tr> <tr> <td>Pin 1 @ Pin 2 (T)</td> <td>Pin 1 @ Pin 2 (T)</td> </tr> <tr> <td>Pin 3 @ Pin 6 (T)</td> <td>Pin 3 @ Pin 6 (T)</td> </tr> <tr> <td>Pin 4 @ Pin 5 (T)</td> <td>Pin 4 @ Pin 5 (T)</td> </tr> <tr> <td>Pin 7 @ Pin 8 (T)</td> <td>Pin 7 @ Pin 8 (T)</td> </tr> </table> | RJ45 A (HDMI A) | RJ45 B (HDMI B) | | Pin 1 @ Pin 2 (T) | Pin 1 @ Pin 2 (T) | Pin 3 @ Pin 6 (T) | Pin 3 @ Pin 6 (T) | Pin 4 @ Pin 5 (T) | Pin 4 @ Pin 5 (T) | Pin 7 @ Pin 8 (T) | Pin 7 @ Pin 8 (T) |
| RJ45 A (HDMI A) | RJ45 B (HDMI B) | | | | | | | | | | | |
| Pin 1 @ Pin 2 (T) | Pin 1 @ Pin 2 (T) | | | | | | | | | | | |
| Pin 3 @ Pin 6 (T) | Pin 3 @ Pin 6 (T) | | | | | | | | | | | |
| Pin 4 @ Pin 5 (T) | Pin 4 @ Pin 5 (T) | | | | | | | | | | | |
| Pin 7 @ Pin 8 (T) | Pin 7 @ Pin 8 (T) | | | | | | | | | | | |
| <i>Reverse Polarity Sensitive</i> | | | | | | | | | | | | |
| <i>Use EIA/TIA 568A or 568B Straight-through wiring</i> | | | | | | | | | | | | |
| Cable | One (1) Cat 5e/6 UTP/STP cable (or better) required per HDBaseT port | | | | | | | | | | | |
| Power Supply | One (1) 110-240V/24VDC, 5A power supply with detachable IEC power cord | | | | | | | | | | | |
| IR Remote | Includes four (4) IR emitters and one (1) handheld remote control | | | | | | | | | | | |
| Compatible Receivers | 500451-RX, 500454-RX, 500454-POE-RX | | | | | | | | | | | |
| LED Diagnostics | Power (Blue) Connections Status (Green) LAN (Link (Green) and Activity (Yellow)) | | | | | | | | | | | |
| Matrix control | Pushbutton, IR, USB, RS232 and webserver interface | | | | | | | | | | | |
| Temperature | Operating: 0°C to 40°C Storage: -20°C to 85°C Humidity: Up to 95% non-cond. | | | | | | | | | | | |
| Dimensions | 1U Rack Mountable: 16.9 x 8.7 x 1.8 in (43.0 x 22.0 x 4.5 cm) | | | | | | | | | | | |
| Shipping Weight | 10 lb (4.5 kg) | | | | | | | | | | | |
| Accessories included | One (1) USB Type A to Type B cable One (1) RS232 cable Four (4) IR Sensors Four (4) IR Emitters Matrix switch remote control | | | | | | | | | | | |
| Regulatory | FCC, CE, RoHS, WEEE | | | | | | | | | | | |
| Warranty | Two (2) years | | | | | | | | | | | |
| Order Information | 500416-POE-US HDMI 4X4 MATRIX SWITCH HDBT, POE, US UPC 627699014165 500416-POE-UK HDMI 4X4 MATRIX SWITCH HDBT, POE, UK UPC 627699914168 500416-POE-EU HDMI 4X4 MATRIX SWITCH HDBT, POE, Eur UPC 627699814161 | | | | | | | | | | | |

Typical Application



Rear panel

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