Overview

The HDMI 2.0 ready Multimedia 16x16 Matrix Switch is a modular AV switching platform that converts and switches a wide range of digital AV interfaces including 4K @ 60Hz.

The switch features an 8-slot chassis that allows up to four 4-port input modules to be switched to up to four 4-port output modules for a maximum switching capacity of 16x16. This product features the option of having a separate 16x16 line-level analog audio matrix within the chassis.

The matrix switch offers control via front panel LCD touch screen, RS232, Telnet, IP, web server interface, or third party control system. Source and display devices may be control via IR Emitter and RS232 ports on the Matrix. The dual-redundant power supply design reduces the potential for down- time. The matrix switch is compatible with MuxLab HDBaseT transmitters and receivers for I/O distribution of signals over distance.

Typical Applications

Control and server room displays, meeting and events, residential multi-room systems, digital signage.

Key Features

- HDMI 2.0 and HDCP 2.2 chassis
- Input signal cards include: HDMI, HDBaseT
- Output signal cards include: HDMI, HDBaseT
- PoH on HDBaseT inputs and outputs with compatible MuxLab Extenders and Baluns
- Full HDBaseT "5-Play" feature set available
- Front 7" LDC touch screen with video preview
- RS232, Telnet, IP and web interface management
- IR, RS232 pass through
- Analog audio extraction and insertion
- Separate 16x16 analog audio matrix option
- Local HDMI monitor output
- Dual-redundant power supply (one included)

Specification Chart

Environment	HDMI 1.4a, HDMI 2.0a, 3D Support, HDBT
Devices	HD screens, DVD and Blu-Ray players, monitors, projectors, PCs, laptops, home theatre systems, game consoles.
Transmission	Transparent to the user
Switching configurations	4x4, 4x8, 4x12, 4x16, 8x4, 8x8, 8x12, 8x16, 12x4, 12x8, 12x12, 12x 16,16x4,16x8, 16x12, 16x16
Management	Front LCD touch panel control, RS232, USB, IR, Webserver and third party control systems
Input Slots	4 slots supporting 4-port modular input card; HDMI, HDBaseT
Output Slots	4 slots supporting 4-port modular output card; HDMI, HDBaseT
Connectivity	Ethernet LAN (RJ45), USB (Type B), IR (3.5mm jack), RS232 (DB9), 2 Dry-contact relays
Maximum Distance (over Cat5e/6 UTP/STP)	HDBT/LAN Card: 330ft (100m) @ 1080p, and 230ft (70m) @ 4K/30 HDBT Card: 230ft (70m) @ 1080p, and 115ft (35m) @ 4K/30
Backplane Bandwidth	Supports up to 18Gbps (HDMI 2.0a)
Cables	Cat 5e/6 UTP/STP cables (or better) required for HDBaseT port
Power	AC 100-240 V 50/60 Hz
Power Supply	Dual Redundant Power Supply 100-240 VAC to 12 VDC @ 25A (300 W)
Display	7" TFT display with touch screen
Temperature	Operating: 0ºC to 50ºC, Storage: -20ºC to 85ºC, Humidity: Up to 95% non-condensing
Dimensions	6U Rack Mountable: 483 x 267 x 370 mm
Weight	20 lbs. (9.1 kg)
Regulatory	FCC, CE, RoHS, WEEE
Safety	UL, CUL
Warranty	Two (2) years
Order Information	500480-US Multimedia 16x16 Matrix Switch with one Power Supply Unit 500480-UK Multimedia 16x16 Matrix Switch with one Power Supply Unit 500480-EU Multimedia 16x16 Matrix Switch with one Power Supply Unit

Available Models

Part Number	Product Description	Part Number	Product Description
500480	Multimedia 16x16 matrix switch chassis		
500481-I	4 channel HDMI/RS232 input card, UHD-4K	**500481-O**	4 channel HDMI/RS232 output card, UHD-4K
500482-I	4 channel HDBaseT/LAN input card, PoE, UHD-4K	**500482-O**	4 channel HDBaseT/LAN output card, PoE, UHD-4K
500483-I	4 channel HDBaseT input card, PoE, UHD-4K	**500483-O**	4 channel HDBaseT output card, PoE, UHD-4K

Typical Application Schematic