

HDMI 2.0 4x4 Matrix Switcher transmit 1080P over CATx up to 150M over ethernet.

Switch and Distribute 4 Sources to 4 Displays

MPN: MMX-4X4CAT-150M

The **MMX-4X4CAT-150M** is a 4x4 matrix switcher designed by KanexPro, which allows for the routing of HDMI signals over long distances using CAT5e or CAT6 cables. This switcher is ideal for environments that need to distribute HDMI signals over long distances while maintaining high-quality video and audio, all with robust control options.

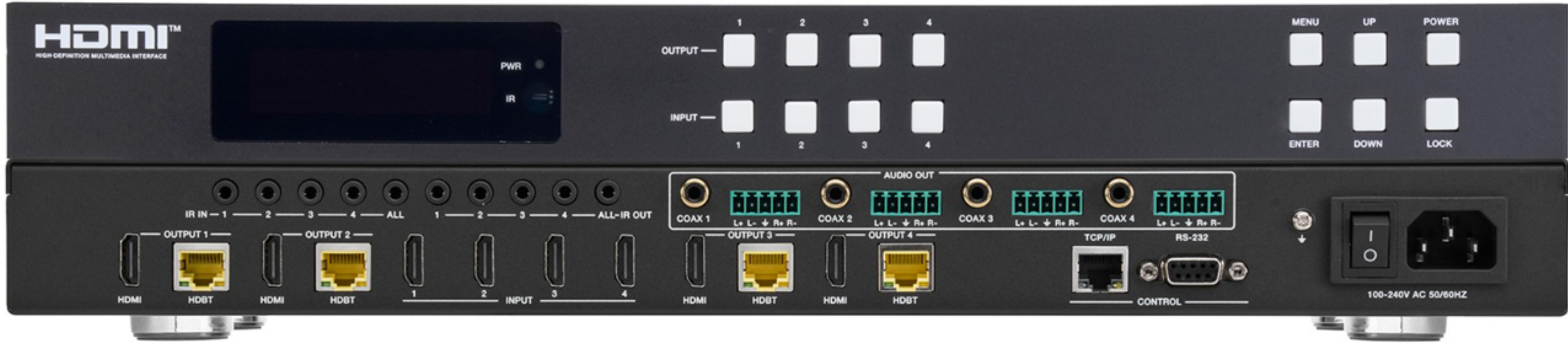
This device is typically used in professional AV environments, such as conference rooms, control centers, digital signage applications, and home theaters, where multiple HDMI sources need to be managed and routed to different displays.

Industry Standard HDCP 2.2 & 4K/60

HDCP 2.2 authentication is present always on this matrix ensuring proper handshake of the protected content. It also maintains resolutions up to 4K4096x2160@24, 30, 50 or 60Hz, 3840x2160@24, 25,30, 50 or 60Hz and 2560x1080@60Hz displaying 21:9 aspect ratios. 1920 x 1200 or full HD 1080p/60 is a standard for all our matrix switchers.

Applications:

- Conference Rooms & Meeting Spaces
- Educational Facilities
- Digital Signage Systems
- Home Theater Systems
- Corporate Offices
- Broadcasting and Production Studios



Key Benefits of Using an MMX-4x4CAT-150M Matrix Switcher:

- Seamless 4x4 Switching
- Extended Transmission Distance
- Support for High-Quality Video
- Bidirectional IR and RS-232 Control
- Power over Ethernet (PoE)
- EDID Management
- Audio De-Embedding
- Reliable and Cost-Effective Installation
- Future-Proof Design

FEATURES

- 4x4 Matrix Switching
- 4 HDMI inputs, 4 HDMI & CAT mirrored outputs
- Video resolution up to 4K2K@60Hz (YUV 4:4:4) on all HDMI & CAT ports
- Signal Extension Over CAT x up to 492ft / 150m
- Support one-way IR matrix function
- HDBT Technology
- Smart EDID Management
- HDCP Compliance
- Audio De-embedding
- RS-232 and IR Pass-Through
- Control via front panel buttons, IR remote, RS-232, LAN and Web GUI
- Scaling and Output Adjustments

SPECIFICATIONS

TECHNICAL			
HDMI Compliance	HDMI 2.0b		
HDCP Compliance	HDCP 2.2/1x		
Video Bandwidth	18Gbps		
Video Resolution	Up to 4K2K@50/60Hz (4:4:4)		
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0		
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit,10-bit,12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)		
HDR	HDR10, HDR10+, Dolby Vision, HLG		
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus (DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X		
Coax audio formats	PCM 2.0, Dolby Digital / Plus, DTS 2.0/5.1		
Vmax	2Vrms		
SNR	>90dB		
THD+N radio	<0.1%(V_max) 0.001%-0.01%(V_best)		
Crosstalk	>80dB		
Frequency response	20Hz-20kHz ±0.5dB		
Transmission distance	492ft / 150m (via a single CAT6 cable)		
ESD protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)		
Connection			
Matrix	Inputs: 4 x HDMI Type A [19-pin female] Outputs: 4 x HDMI Type A [19-pin female] 4 x HDBT port [RJ45] 4 x Coaxial audio [3.5mm Stereo Mini-jack] 4 x balanced analog audio [5-pin Phoenix connector] Controls: 5 x IR IN [3.5mm Stereo Mini-jack] 5 x IR OUT [3.5mm Stereo Mini-jack] 1 x TCP/IP [RJ45] 1 x RS-232 [D-Sub 9]		
HDBT Receiver	Input: 1 x HDBT IN [RJ45, 8-pin female] Outputs: 1 x HDMI Type A [19-pin female] 1 x AUDIO OUT [3.5mm Stereo Mini-jack] Controls: 1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [3-pin Phoenix connector] 1 x SERVICE [Mini-USB, Update port]		
Mechanical			
Housing	Metal enclosure		
Color	Black		
Dimensions	Matrix: 440mm (W) x 200mm (D) x 44.5mm (H) Receiver: 140mm (W) x 65mm (W) x 18mm (W)		
Weight	Matrix: 3.1 Kg, Receiver: 155g		
Power supply	Input: AC 90 ~ 260V 50/60Hz Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)		
Power consumption	60W (Max)		
Operating temperature	32 ~ 104°F / 0 ~ 40°C		
Storage temperature	-4 ~ 140°F / -20 ~ 60°C		
Relative humidity	20 ~ 90% RH (Non-condensing)		
Resolution / Cable length			
	4K60 ~ Feet / Meters	4K30 ~ Feet / Meters	1080P60 ~ Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M
The use of "Premium High-Speed HDMI" cable is highly recommended.			

APPLICATION DIAGRAM

