

MAX-HDBT816T6/AP4

8×8 HDBT Matrix With Mirrored outputs



The ABtUS **MAX-HDBT816T6/AP4** is a 8x8 matrix that supports routing of 8 HDMI inputs to 8 HDMI outputs and up to 2 mirrored HDBaseT outputs (up to 70m) & 6 mirrored RJ45 outputs (up to 50m using CAT-6). It can route high definition video sources plus multi-channel (up to 7.1-channel) digital audio from any input to any output.

The matrix has a fast start up time of 3-5 seconds and a rapid switching time of 0-3 seconds.



Features

- Fast response time < 3 seconds for channel switching
- Fast start up time 3~5 seconds to fully operational
- Supports HDMI 2.0 Deep Color and full 3D & 4K 2K @60hz
- HDCP 1.4 compliant
- Supports PoC (Power over Cable)
- RS-232 and CEC signal routing
- Controllable via RS-232 and Front Panel
- Real time status monitoring
- Smart power management - ECO power saving management
- Independent MCU for each I/O slot to improve performance
- HDMI jitter cleaning - Rebuilds the digital signals for transmission over longer distances
- Automatic error detection and data synchronization
- Automatically detect operating temperature and adjust fan speed for quietest performance
- Supports multi machine mode - Each matrix can be assigned a unique machine ID
- Supports 7.1 channel digital audio
- Supports default HDMI EDID and learns the EDID of displays
- Supports front panel key lock
- Supports source broadcasting
- Easy installation with 2 RU rack-mounting

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Typical applications

Input:	8 HDMI inputs 8 RS-232/IR/CEC inputs
Output:	8 HDMI outputs 2 HDBaseT outputs (up to 70m) & 6 RJ45 outputs (up to 50m) (max resolution: 1080p@60Hz) up to 8 RS-232 outputs up to 16 CEC outputs
HDMI source control:	RS-232 control Front Panel
HDMI connector:	Electro-optical characteristics: $\pi = 25^\circ$ / Carrier frequency: 20-60kHz
RJ-45 connector:	Type A [19-pin female]
RS-232 connector:	WE/SS 8P8C [Reversed mode]
Modular I/O slots:	8 x input slots , 8 x output slots
HDMI compliance:	HDMI 2.0 Deep Color and full 3D & 4K2K@60 hz
HDTV compatibility:	Yes
HDCP compliance:	Yes [HDCP 1.4]
EDID Management:	Able to set, create, capture and stores EDID configurations
Video bandwidth:	12.75Gbps [4.25Gbps per graphic channel]
Video supports:	480i/480p/720p/1080i/1080p@60 (on RJ45 outputs) / 4K 2K@60 hz [4:2:0] (on HDMI & HDBT outputs)
Audio support:	Surround sound (up to 7.1ch) or stereo digital audio
Fixedness:	19" rack-mount (2 RU) with ears & wall hanging holes
Power supply:	AC Power 100-240V AC
Operation temperature:	0° to +40°C [32~104°F]
Storage temperature:	-40° to +70°C [32~104°F]
Relative humidity:	10% to 90% RHL, (non-condensing)
Enclosure:	Metal case
Product dimension:	290 mm x 85 mm x 445 mm
Product weight:	5.6 kg

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Diagram
