

## MAX-HDMI816/AP4

### 8×8 HDMI Matrix With Mirrored RJ45 outputs



The ABtUS **MAX-HDMI816/AP4** is a 8x8 matrix that supports routing of 8 HDMI inputs to 8 HDMI outputs and up to 8 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 up to full 3D & 4K 2K @60hz
- HDCP 1.4 compliant
- Extends HDMI signals up to 30m over CAT-5e or up to 50m over CAT-6
- 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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## 8×8 HDMI Matrix With Mirrored RJ45 outputs

### Typical applications

<b>Input:</b>	8 HDMI inputs 8 RS-232/IR/CEC inputs
<b>Output:</b>	8 HDMI outputs 8 RJ45 outputs (up to 50m) (max resolution: 1080p@60Hz) up to 8 RS-232 outputs up to 16 CEC outputs
<b>HDMI source control:</b>	RS-232 control Front Panel
<b>HDMI connector:</b>	Electro-optical characteristics: $\pi = 25^\circ$ / Carrier frequency: 20-60kHz
<b>RJ-45 connector:</b>	Type A [19-pin female]
<b>RS-232 connector:</b>	WE/SS 8P8C [Reversed mode]
<b>Modular I/O slots:</b>	8 x input slots , 8 x output slots
<b>HDMI compliance:</b>	HDMI 2.0 Deep Color and up to full 3D & 4K2K@60 hz
<b>HDTV compatibility:</b>	Yes
<b>HDCP compliance:</b>	Yes [HDCP 1.4]
<b>EDID Management:</b>	Able to set, create, capture and stores EDID configurations
<b>Video bandwidth:</b>	12.75Gbps [4.25Gbps per graphic channel]
<b>Video supports:</b>	480i/ 480p/ 720p/ 1080i/ 1080p@60 (on RJ45 outputs) / 4K 2K@60 hz [4:2:0] (on HDMI outputs)
<b>Audio support:</b>	Surround sound (up to 7.1ch) or stereo digital audio
<b>Fixedness:</b>	19" rack-mount (2 RU) with ears & wall hanging holes
<b>Power supply:</b>	AC Power 100-240V AC
<b>Power consumption:</b>	155W
<b>Operation temperature:</b>	0° to +40°C [32~104°F]
<b>Storage temperature:</b>	-40° to +70°C [32~104°F]
<b>Relative humidity:</b>	10% to 90% RHL, (non-condensing)
<b>Enclosure:</b>	Metal case
<b>Product dimension:</b>	290 mm x 85 mm x 445 mm
<b>Product weight:</b>	5.6 kg