

MAX-1616/AP4

16×16 Modular Matrix



The ABtUS **MAX-1616/AP4** is a modular matrix that supports up to 16 inputs and 16 outputs. It can route high definition video sources plus multi-channel (up to 7.1-channel) digital audio and also RS232/IR/CEC control from any input to any output.

The matrix has a unparalleled fast start up time of 3-5 seconds and a rapid switching time of 0-2 seconds.

Users can also add on a power module to power all external HDBT transmitters and receivers via the m.atrrix



Features

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

Technical specification

Input:	up to 16 video inputs up to 16 RS-232/IR/CEC inputs
Output:	up to 16 video outputs up to 16 RS-232/IR/CEC inputs up to 16 monitor inputs
HDMI source control:	RS-232 control Ethernet 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] / Frequency: 100 Hz to 13.5MHz
Modular I/O slots:	8 x input slots , 8 x output slots
HDMI compliance:	HDMI 2.0 Deep Color & 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 / 4K 2K@60 hz [4:2:0]
Audio support:	Surround sound (up to 7.1ch) or stereo digital audio
Fixedness:	19" rack-mount (4 RU) with ears & wall hanging holes
Power supply:	AC Power 100-240V AC
Operation temperature:	0° to +70°C [32~158°F]
Storage temperature:	-40° to +70°C [-40~158°F]
Heat Dissipation	41 to 614 BTU/hr
Relative humidity:	10% to 90% RHL, (non-condensing)
Ambient Noise:	41 to 614 BTU/hr
Power consumption:	250W
Power supply:	100-240V AC
Enclosure:	Metal case
Dimension:	450 x 345 x 78 mm
Weight:	11.0 Kg