



AVPro edge

18GBPS HDBaseT 8x8 MATRIX SWITCH FEATURING ICT & DOWNMIXING AC-MX88-AUHD-HDBT-AVDM

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

4K HDBT
ASE

HDCP
HIGH-BANDWIDTH DIGITAL CONTENT PROTECTION

ICT
INVISIBLE COMPRESSION
TECHNOLOGY



THE AC-MX88-AUHD-HDBT-AVDM IS A HIGH BANDWIDTH AUDIO/VIDEO MATRIX SWITCHER. WHAT MAKES THIS PRODUCT SPECIAL IS THE ABILITY TO DOWNMIX BITSTREAM AUDIO BEYOND 7.1 CHANNEL INTO A 2 CHANNEL AUDIO SIGNAL VIA ALL 8 INPUTS, INCLUDING DOLBY ATMOS AND DTS-X. THIS MATRIX SWITCHER ALLOWS YOU TO DELIVER 24+ CHANNELS TO YOUR DOLBY ATMOS HOME THEATER WHILE AT THE SAME TIME DELIVERING 2 CHANNEL TO THE REST OF THE ZONES. WE DO THIS BY ALLOWING THE DOWNMIXING TO ONLY EFFECT THE HDBaseT OUTPUT PORTS. THE 8 MIRRORED HDMI PORTS LEAVE THE AUDIO UNIMPEDED, ALLOWING YOU TO DISTRIBUTE FULL DOLBY ATMOS AND DTS HD THROUGH THEM.

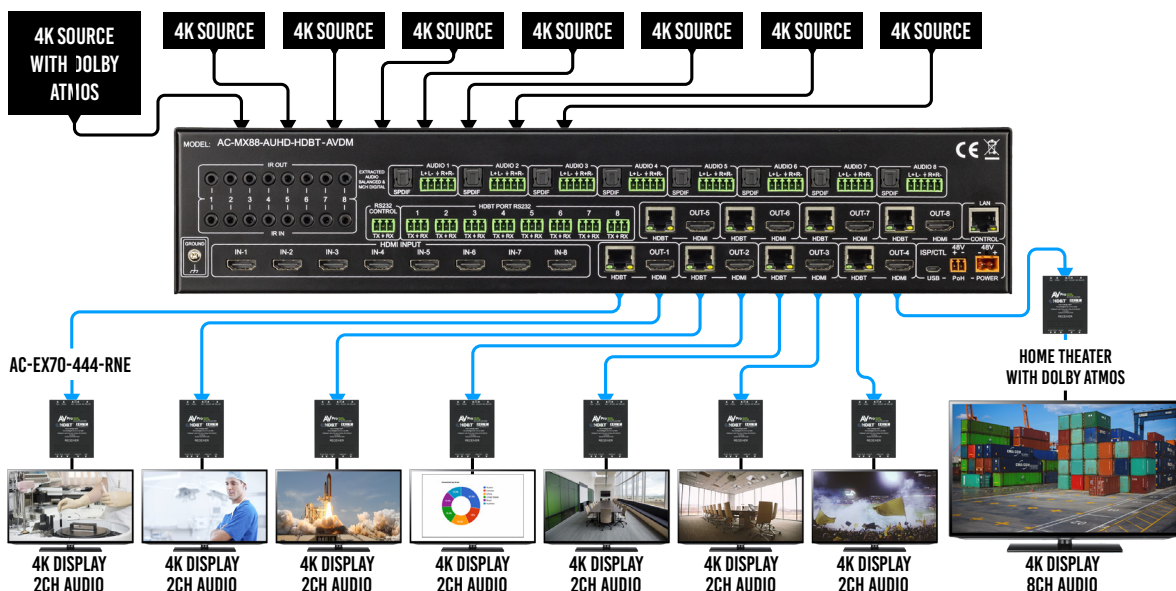


Supporting the full HDMI 2.0 a/b specification and supporting every flavor of HDR, this matrix will ensure you can get the most out of any system. This 8x8 downmixing matrix supports HDR formats Including HDR, HDR10, HDR10+, Dolby Vision, HLG, BBC and NHK. All of them are supported in up to 4K 60Hz and up to 12 Bit Deep Color. All color space compression is compatible. This powerhouse matrix switcher is the ideal solution for a multizone setups that need audio downmixing. Control is not a problem, through the web GUI you can manage all the settings and controls. We also offer drivers for all the top control systems. Combine that with the LED setup screen on the front and management is a breeze. The AC-MX88-AUHD-HDBT-AVDM will become a staple in your large, demanding installations!

CONNECTION DIAGRAM AC-MX88-AUHD-HDBT-AVDM

HDMI
CAT 6A

*DOWNMIX 8 CHANNEL BIT STREAM AUDIO TO 2 CHANNEL



PRODUCT SPECIFICATIONS

VIDEO:

VIDEO RESOLUTIONS	UP TO 4K 60HZ 4:4:4
VESA RESOLUTIONS	UP TO DCI 4K (4096X2160)
HDR FORMATS/RESOLUTIONS	420, 422, 444 (10 AND 12 DEEP COLOR) HDR10, HDR10+, DOLBY VISION (24/30 FRAMES), HLG
COLOR SPACE	YUV (COMPONENT), RGB (CSC: REC. 601, REC. 709, BT2020, DCI, P3 D6500)
CHROMA SUBSAMPLING	4:4:4, 4:2:2, 4:2:0 SUPPORTED
DEEP COLOR	UP TO 16 BIT (1080), UP TO 12 BIT (4K)
SCALERS (HDMI) PER OUTPUT OPTIONAL	1080P TO 4K (RESOLUTION ONLY, FRAMERATE STAYS THE SAME)
SCALERS (HDBaseT) PER OUTPUT OPTIONAL	4K TO 1080P (RESOLUTION ONLY, FRAMERATE STAYS THE SAME)
HDMI OUTPUT	MIRRORED HDMI OUTPUTS (HDBaseT 1-8)

AUDIO:

AUDIO FORMATS SUPPORTED HDMI	PCM 2.0 CH, LPCM 5.1 & 7.1, DOLBY DIGITAL, DTS 5.1, DOLBY DIGITAL PLUS, DOLBY TRUEHD, DTS-HD MASTER AUDIO, DTS-X, DOLBY ATMOS
AUDIO FORMATS SUPPORTED EXTRACTED (TOSLINK)	PCM 2 CH, LPCM 6 CH, LPCM 7 CH, DOLBY DIGITAL, DOLBY DIGITAL PLUS, DTS-HD MASTER AUDIO (ALWAYS DOWNMIXED)
AUDIO FORMATS SUPPORTED EXTRACTED (2CH PORT)	PCM 2 CH (ALWAYS DOWNMIXED)
AUDIO EXTRACTION LOCATION	BIND TO INPUT, BIND TO OUTPUT OR MATRIX (INDEPENDENT)
AUDIO DELAY (PER OUTPUT, EXTRACTED)	UP TO 630MS

DISTANCE:

HDBaseT OUT (4K60 4:4:4 & HDR) W/ AC-EX70-444-RNE	70 METERS / 230 FEET (CAT 6A)
HDBaseT OUT (1080P) W/ AC-EX70-444-RNE	100 METERS / 330 FEET (CAT 6A)
HDBaseT OUT (4K60 4:2:0 MAX) W/ AC-EX70-UHD-R	40 METERS / 131 FEET (CAT 6A)
HDBaseT OUT (1080P) W/ AC-EX70-UHD-R	70 METERS / 230 FEET (CAT 6A)
HDMI IN/OUT (4K60 4:4:4)	UP TO 50 FEET (USING BULLET TRAIN HDMI)
HDMI IN/OUT (W/ AOC CABLE) (4K60 4:4:4)	UP TO 130 FEET (USING BULLET TRAIN AOC)

OTHER:

BANDWIDTH HDMI	18 GBPS UNCOMPRESSED
BANDWIDTH HDBASET	18 GBPS (USES ICT ABOVE 10.2 GBPS SIGNALS)
HDCP	HDCP 2.2 AND EARLIER
POH FOR RECEIVERS (NO NEED TO POWER RECEIVERS)	YES, ALL OUTPUTS

CONTROL:

PORTS	LAN, RS232, IR, MINI USB
DRIVERS	C4, RTI, ELAN, CRESTRON, URC (FOR MORE - SEE DRIVERS PAGE)
PC SOFTWARE / LAN WEBOs	YES

PORTS:

HDMI	TYPE A
HDBaseT	RJ45 W/ POH FOR HDBaseT RECEIVERS
LAN	RJ45 W/ WEB INTERFACE/CONTROL
AUDIO (EXTRACTED DIGITAL)	TOSLINK
AUDIO (EXTRACTED ANALOG)	5 PIN TERMINAL BLOCK (BALANCED)
IR RX	3.5MM STEREO (3 CONDUCTOR)
RS-232	3 PIN TERMINAL BLOCK

ENVIRONMENTAL:

OPERATING TEMPERATURE	23 TO 125°F (-5 TO 51°C)
STORAGE TEMPERATURE	-4 TO 140°F (-20 TO 60°C)
HUMIDITY RANGE	5-90% RH (NO CONDENSATION)

POWER:

POWER CONSUMPTION (TOTAL)	56 WATTS MAX
POWER SUPPLY - MATRIX	INPUT: AC 100-240V ~ 50/60HZ OUTPUT: DC 48V 2A

DIMENSIONS:

DIMENSIONS (UNIT ONLY HEIGHT/DEPTH/WIDTH)	MM: 89.52 X 228.6 X 441.33 INCH: 3.52 X 9 X 17.38
DIMENSIONS (PACKAGED HEIGHT/DEPTH/WIDTH)	MM: 136 X 375 X 495 INCH: 5.34 X 14.75 X 19.5
RACK UNITS	2U
WEIGHT (UNIT)	9.8 LBS (4.45 KG)
WEIGHT (PACKAGED)	14.2 LBS (6.44 KG)

*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE.



FEATURES

- HDMI 2.0(a/b)
- 18Gbps Bandwidth Support
- 4K60 4:4:4 Support
- Ultimate HDR Support (HDR 10 & 12 Bit)
- Dolby Vision, HDR10+ and HLG Support
- HDCP 2.2 (and all earlier versions supported)
- Simple setup with front panel control screen
- Web GUI for simple connectivity and control/management
- Advanced EDID Management
- IR, RS-232 and LAN Control Options
- Front Panel Control
- Digital Coax Audio Out (6CH PCM, DD, DTS)
- Driver Support for Crestron, C4, RTI, ELAN and more
- Extracted Audio Now Has 3 Operating Modes. Bound to Input, Bound to Output, or Independent Matrix
- Mirrored HDMI Outputs include unimpeded Audio
- Built in Downmixer
- Built in Downscalers
- ICT used in the HDBaseT outputs
- Volume Control