



HDBT™ HDMI®
ASE HIGH-DEFINITION MULTIMEDIA INTERFACE

HDR **ICT** **HDCP™**
INVISIBLE COMPRESSION TECHNOLOGY HIGH-BANDWIDTH DIGITAL CONTENT PROTECTION

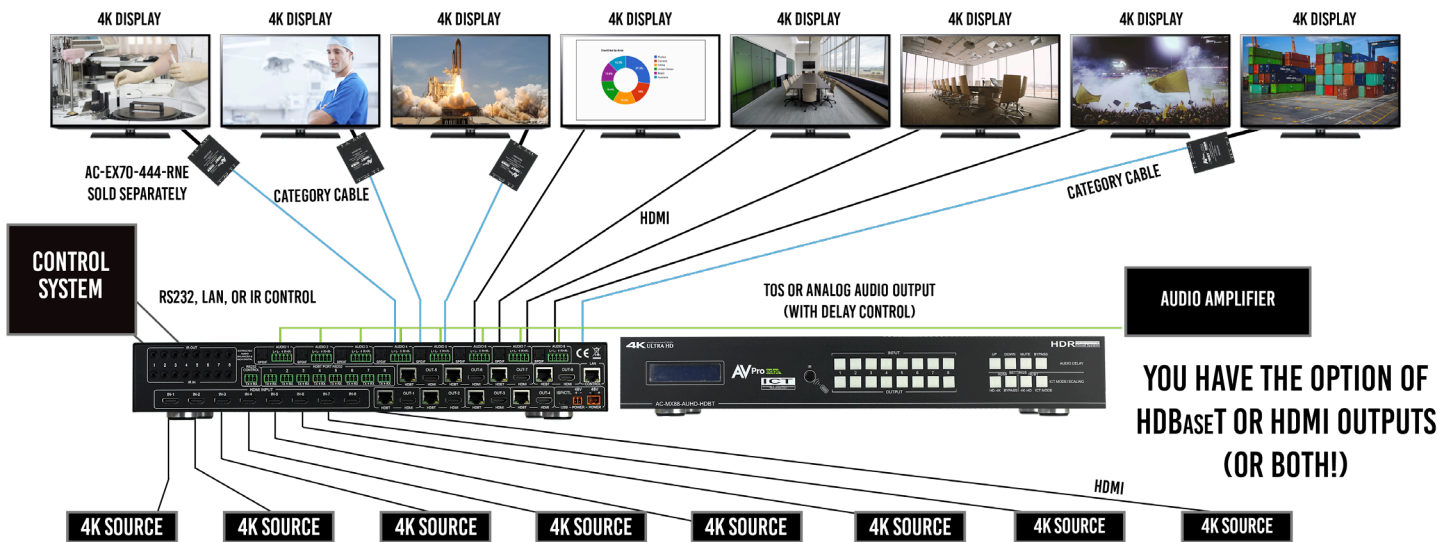
18GBPS HDBaseT
8x8 MATRIX SWITCH
FEATURING ICT
AC-MX88-AUHD-HDBT

A TRUE 18GBPS 4K60 (4:4:4) 8x8 HDBaseT MATRIX SWITCH. EACH OUTPUT BLOCK ON THIS POWERHOUSE SWITCH CONTAINS BOTH A MIRRORED HDMI AND HDBaseT PORT CAPABLE OF HANDLING FULL 18GBPS VIDEO SIGNALS WITH HDR METADATA.



Along with high bandwidth distribution, features include IR and RS-232 control, EDID management, scaling, audio matrixing, audio delay and more. This matrix supports HDMI 2.0(a/b), HDCP 2.2, up to 4K video resolution, and up to 18Gbps bandwidth via category cable by using a proprietary HDBaseT technology called ICT (Invisible Compression Technology). This switch allows any source (Blu-ray, UHD Blu-ray, satellite receiver, game consoles, PCs, etc ...) to be shown on any of the connected displays. This matrix equalizes and amplifies the output to ensure the HDMI signal can be transmitted through long HDMI cables without loss of quality.

CONNECTION DIAGRAM



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)
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
AUDIO FORMATS SUPPORTED EXTRACTED (2CH PORT)	PCM 2 CH (NO DOWNMIX)
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 WEBS	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)	38 WATTS MAX
POWER SUPPLY - MATRIX	INPUT: AC 100-240V ~ 50/60HZ / OUTPUT: DC 12V 4A
DIMENSIONS	
DIMENSIONS (UNIT ONLY HEIGHT/DEPTH/WIDTH)	MM: 64.77 X 225.43 X 441.33 / INCH: 2.55 X 8.875 X 17.375
DIMENSIONS (PACKAGED HEIGHT/DEPTH/WIDTH)	MM: 114.39 X 368.3 X 495.3 / INCH: 4.5 X 14.5 X 19.5
RACK UNITS	1.5 UNIT
WEIGHT (UNIT)	8.5 LBS/3.8 KG
WEIGHT (PACKAGED)	12.5 LBS/5.8 KG

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

AVPro edge

IN THE BOX:

- AC-MX88-AUHD-HDBT Matrix Switch
- 48v Power Supply
- 1x Set of Rack Ears
- 1 x IR Remote Control
- Operation Manual



FEATURES

- HDMI 2.0(a/b)
- 18Gbps Bandwidth Support on HDMI & HDBaseT Outputs
- 4K60 4:4:4 Support
- Full HDR Support (HDR 10 & 12 Bit)
- Dolby Vision, HDR10+ and HLG Support
- HDCP 2.2 (and all earlier versions supported)
- 1080p > 4K Scaling on HDMI outputs
- 4K > 1080P Scaling on HDBaseT outputs
- Advanced EDID Management
- IR, RS-232 and LAN Control Options
- Digital Toslink Out (7CH PCM, DD, DD+, DTS, DTS-MA)
- Balanced Analog Out (2CH PCM)
- Audio Delay for Digital & Analog Out
- HDBaseT Compatibility mode for mixed systems
- Driver Support for Crestron, C4, RTI, ELAN and more
- Extracted Audio Now Supports DD+, DTS Master Audio on Toslink
- Extracted Audio has 3 Operating Modes: Bound to Input, Bound to Output, or Independent Matrix
- Built in Test Pattern on Each Output to Verify Infrastructure

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