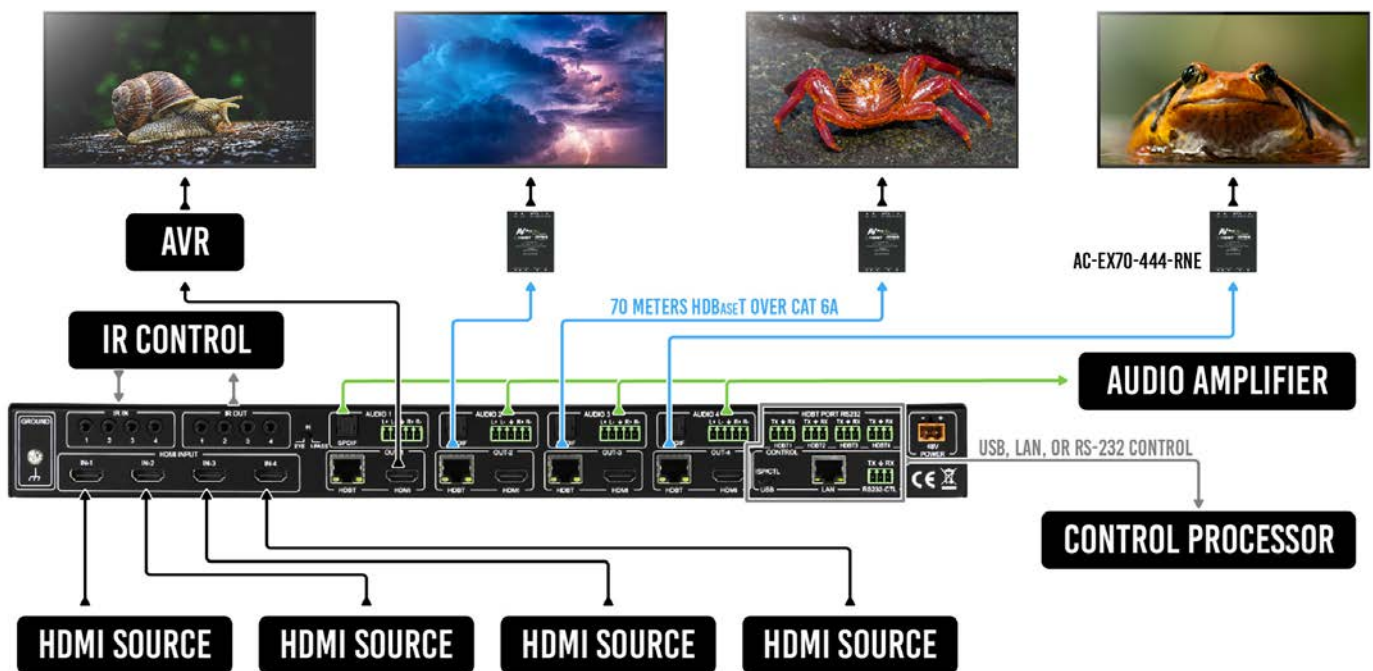# 18Gbps HDBaseT 4x4 MATRIX SWITCH

FEATURING ICT
AC-MX-44HDBT

The AC-MX-44HDBT is a true 4x4 HDMI/HDBaseT matrix switch. This unit includes 4 HDMI inputs and 4 HDMI/HDBaseT output blocks. These output blocks include an HDBaseT and HDMI port, these ports are mirrored, and both are active. This Matrix supports HDMI 2.0(a/b), HDCP 2.3, up to 4K video resolution, and up to 18 Gbps bandwidth. Audio Delay is "On-Board" so you can manage lip-sync issues before it is a problem. Also, with built-in Scalers you don't have to forfeit that 4K signal just because you have a couple of older displays. All that with Full EDID management allows maximum flexibility with today's wide mixture of sources and displays.

ICT (Invisible Compression Technology) is a revolution in HDMI extension technology. This proprietary technology can compress high bandwidth HDMI signals into a more manageable size to fit through a CAT Cable "pipe". The architecture of ICT allows it to be compatible with all chroma subsampling types, color spaces and HDMI Deep Color up to 12 Bit. Our technology is unique because it is truly invisible. What makes ICT special is that we preserve HDR Metadata and color information and depth in its full, original, integrity. Other compression technologies sacrifice these to save space and it will cause very visible banding, color shifting and motion artifacts in the image.

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 DIGTAL, 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 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 TEMPRATURE	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 48V 1.5 AMP
DIMENSIONS	
DIMENSIONS (UNIT ONLY HEIGHT/DEPTH/WIDTH)	MM: 50.8 X 256 X 441.33 / INCH: 2 X 10.07 X 17.375
DIMENSIONS (PACKAGED HEIGHT/DEPTH/WIDTH)	MM: 88.9 X 393.7 X 495.3 / INCH: 3.5 X 15.5 X 19.5
RACK UNITS	1 UNIT
WEIGHT (UNIT)	8 LBS/3.5 KG
WEIGHT (PACKAGED)	11 LBS/5 KG

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

AVPro edge

IN THE BOX:
- AC-MX-44HDBT (Matrix Switch)
- 48V Power Supply
- 1 x IR Remote Control
- Rack Ears
- Four 5-Pin Terminal Blocks
- Two 3-Pin Terminal Blocks
- 5-Pin to 2ch Audio Extraction Cable

FEATURES

- HDMI 2.0(a/b)
- 18Gbps Uncompressed Bandwidth Support on HDMI
- 18 Gbps with ICT on HDBaseT outputs
- 4K60 4:4:4 Support
- Full HDR Support (HDR 10 & 12 Bit)
- Dolby Vision, HDR10+ and HLG Support
- HDCP 2.3 (and all earlier versions supported)
- 1080p > 4K Up Scaling on HDMI outputs
- 4K > 1080P Down Scaling on HDBaseT outputs
- Advanced EDID Management
- IR, RS-232 and LAN Control Options
- Digital Toslink Out (7CH PCM, DD, DTS)
- 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 Now Has 3 Operating Modes. Bound to Input, Bound to Output, or Independent Matrix
- Built-in Test Pattern on Each Output to Verify Infrastructure