

DOLBY AUDIO™

dts-HD®

AV Pro edge



HDBT™
ASE

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

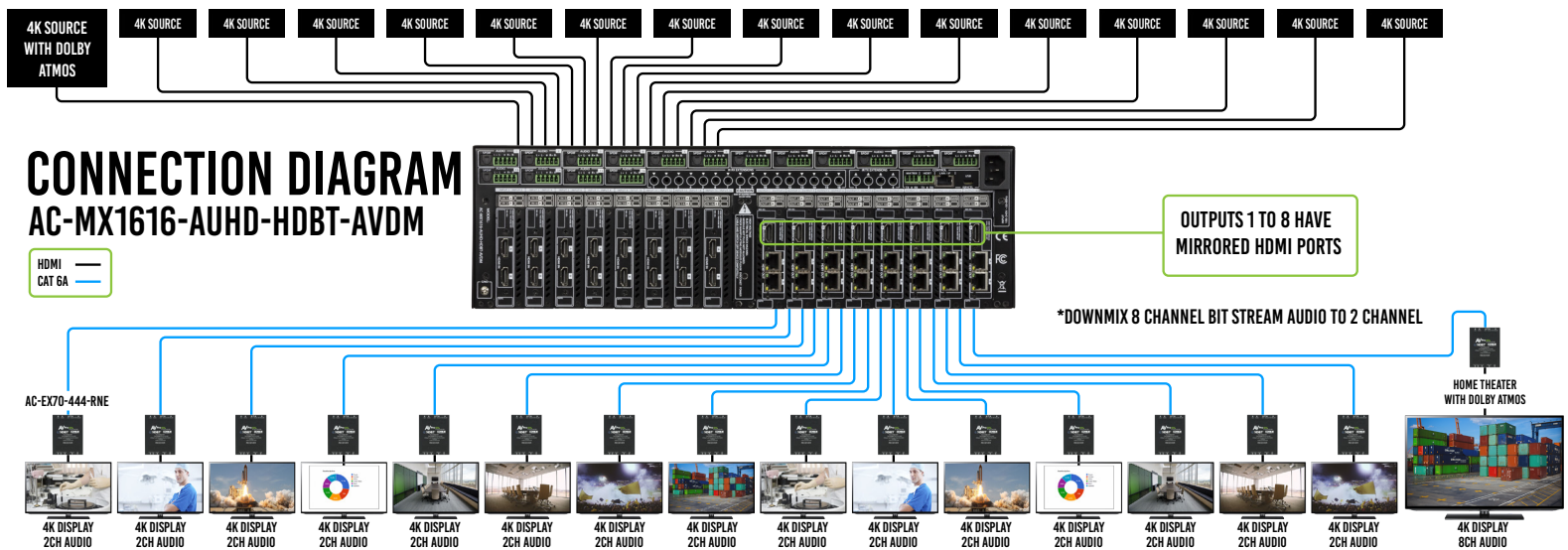


IC™
INVISIBLE COMPRESSION
TECHNOLOGY

18GBPS HDBASET 16x16 MATRIX SWITCH WITH 7.1 DOWNMIXING AC-MX1616-AUHD-HDBT-AVDM

THIS MATRIX SWITCHER IS A TRUE HIGH BANDWIDTH AUDIO/VIDEO POWERHOUSE. WHAT REALLY MAKES THIS PRODUCT SPECIAL IS THE ABILITY TO DOWNMIX BITSTREAM AUDIO BEYOND 7.1 CHANNEL INTO A 2 CHANNEL AUDIO SIGNAL VIA ALL 16 INPUTS. IN A MULTIZONED DISTRIBUTION SYSTEM EVERY ZONE IS NOT SET TO HANDLE FULL DOLBY ATMOS SOUND, MOST ZONES ARE GOING TO NEED 2 CHANNEL AUDIO. THIS MATRIX SWITCHER ALLOWS YOU TO DELIVER 24+ CHANNELS TO YOUR DOLBY ATMOS HOME THEATER, AT THE SAME TIME IT DELIVERS 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.

The AC-MX1616-AUHD-HDBT is a 16 input/output matrix switch built to handle all the latest sources outputting 4K60 (4:4:4) HDR video signals. What truly makes this switch the choice of integrators around the world is the ability to distribute 18Gbps 4K to some zones and 1080p to others. We are able to accomplish this with our built in 4K to 1080p downscalers. This feature is one of many designed to help integrators throughout the installation process. 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 16x16 matrix switcher supports formats including HDR, HDR10, HDR10+, Dolby Vision, HLG, BBC and NHK. All of which are supported in up to 4K 60Hz and up to 12 Bit Deep Color. All color space compression is compatible.





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 (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	18Gbps UNCOMPRESSED
BANDWIDTH HDBASET	18Gbps (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, MICRO USB
DRIVERS	C4, RTI, ELAN, CRESTRON, URC (FOR MORE - SEE DRIVERS PAGE)
LAN WEBOBS	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)
RS232	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	-4 TO 140°F (-20 TO 60°C)
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: 134.87 X 406.4 X 441.45 INCH: 5.31 X 16 X 17.38
DIMENSIONS (PACKAGED HEIGHT/DEPTH/WIDTH)	MM: 209.55 X 558.8 X 571.5 INCH: 8.25 X 22 X 22.5
RACK UNITS	3 U
WEIGHT (UNIT)	25 LBS/11.34 KG
WEIGHT (PACKAGED)	29 LBS/13.15 KG
*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE	

FEATURES

- HDMI 2.0(a/b)
- Downmix beyond 7.1 Channel
- Downmix Dolby Atmos and DTS HD to 2 Channel
- 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
- Volume 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
- Built in Downscalers
- ICT used in the HDBaseT outputs