



ULTRA SLIM 100M 4K60 (4:4:4) HDR HDBaseT EXTENDER AC-EX100-444-KIT-GEN2

HDBT™ **HDMI®** **HDCP™**
ASE HIGH-DEFINITION MULTIMEDIA INTERFACE HIGH-BANDWIDTH DIGITAL CONTENT PROTECTION

THE AC-EX100-444-KIT IS NOT YOUR AVERAGE POINT TO POINT HDMI EXTENDER. THIS UNIQUE PRODUCT EXTENDS AN 18GBPS 4K60 (4:4:4) AUDIO/VIDEO SIGNAL 100 METERS OVER SINGLE CAT USING ICT (INVISIBLE COMPRESSION TECHNOLOGY) AND MANAGES ALL FLAVORS OF HDR AND DOLBY VISION. THIS EXTENDER WAS ENGINEERED BEYOND NORMAL 5-PLAY HDBaseT (AUDIO, VIDEO, POWER, CONTROL, AND ETHERNET) TO ALSO INCLUDES BI-DIRECTIONAL USB EXTENSION. CONTROL A COMPUTER 100 METERS AWAY WITH A KEY BOARD OR MOUSE CONNECTED TO THE RECEIVER, CONNECT A USB CAMERA TO THE RECEIVER AND CONTROL IT VIA A PC CONNECTED TO THE TRANSMITTER 100 METERS AWAY; THE OPTIONS ARE ENDLESS.



ICT is a revolution in HDMI extension. This proprietary technology can compress high bandwidth HDMI signals into a more manageable size to fit through a CAT Cable “pipe”. The ICT algorithm can manage all versions of HDR as well as signals up to 18Gbps and 4K 60Hz 4:4:4. This allows integrators to install the latest sources with confidence and impress customers with an immersive HDR experience. With bi-directional power, left/right audio breakouts, EDID management, scaling, built-in 4K test patterns, Ethernet, IR, RS-232, ARC, and USB connection ports included, these extenders are unparalleled.

AVProedge
AC-EX100-444-KIT-GEN2

BI-DIRECTIONAL USB EXTENSION



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, DOLBY VISION
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)
DOWN SCALING	4K (AND HDR) DOWN TO 1080P
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, TX ONLY)	PCM 2.0 CH, LPCM 5.1 & 7.1, DOLBY DIGITAL, DTS 5.1, DOLBY DIGITAL PLUS, DOLBY TRUEHD, DTS-HD MASTER AUDIO
ARC:	
FORMATS SUPPORTED HDMI ARC OUT TX	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
FORMATS SUPPORTED TOSLINK OUT TX	PCM 2.0 CH, LPCM 5.1 & 7.1, DOLBY DIGITAL, DTS 5.1, DOLBY DIGITAL PLUS, DOLBY TRUEHD, DTS-HD MASTER AUDIO
DISTANCE:	
HDBASET (CAT) DISTANCE (4K)	100 METERS / 330 FEET (CAT 6A)
HDBASET (CAT) DISTANCE (FULL HD)	100 METERS / 330 FEET (CAT 6A)
HDMI LEAD IN/OUT (4K60 4:4:4)	UP TO 50 FEET (USING BULLET TRAIN HDMI)
HDMI LEAD IN/OUT (W/ AOC CABLE) (4K60 4:4:4)	UP TO 130 FEET (USING BULLET TRAIN AOC)
OTHER:	
BANDWIDTH	18 GBPS (W/ ICT)
HDCP	HDCP 2.2 AND EARLIER
PORTS:	
HDMI (TX & RX)	TYPE A
HDBASET	RJ45 W/ POH FOR HDBASET RECEIVERS
AUDIO (EXTRACTED ANALOG) (TX & RX)	3 PIN TERMINAL BLOCK (UNBALANCED)
IR TX (TX & RX)	3.5MM MONO (2 CONDUCTOR)
IR RX (TX & RX)	3.5MM STEREO (3 CONDUCTOR)
RS232 (TX & RX)	3 PIN TERMINAL BLOCK
POWER (TX & RX)	2 PIN TERMINAL BLOCK
ETHERNET (TX & RX)	4x RJ45 CONNECTIONS (10/100)
USB SELECTABLE HOST:	
VERSION	USB 2.0
TX PORT	USB HOST = USB TYPE B (X2) USB TYPE A (X1)
RX PORT	USB HOST = USB TYPE B (X2) USB TYPE A (X1)
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)	12 WATTS MAX
POWER SUPPLY - MATRIX	INPUT: AC 100-240V ~ 50/60HZ OUTPUT: DC 48V 0.5A
DIMENSIONS:	
DIMENSIONS (SINGLE UNIT ONLY, HEIGHT/DEPTH/WIDTH)	MM: 113.68 X 196.85 X 21.8 INCH: 4.48 X 7.75 X 0.86
DIMENSIONS (KIT PACKAGED, HEIGHT/DEPTH/WIDTH)	MM: 184.15 X 317.5 X 79.38 INCH: 7.25 X 12.5 X 3.125
WEIGHT (SINGLE UNIT)	1.2 LB (0.54 KG)
WEIGHT (KIT PACKAGED)	3.6 LBS (1.63 KG)
*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE	

FULL FEATURE SET

- HDMI 2.0(a/b)
- 18Gbps Bandwidth Support (Using ICT)
- Ultra Slim (.47 inch/12mm)
- Up to 4K60 4:4:4 Support
- Full HDR Support (HDR 10 & 12 Bit)
- HDR, HDR10+ and HLG Support
- Selectable USB Host
- 4K --> 1080P Down-scaling for mixed systems
- Audio Return Channel on HDMI or TOSLINK (ARC)
- EDID Management and EDID emulate
- 4K & HD Test Patterns built into Tx and Rx for troubleshooting
- Ethernet Hub Capability (10/100)
- L/R Audio Extraction on Tx and Rx
- HDCP 2.2 (and all earlier versions supported)
- Bi-Directional USB Extension
- CEC Pass Through
- 3D Support
- 100 Meters (330ft) on 1080P (Cat6a)
- 100 Meters (330ft) on 4K (up to 4K60 4:4:4, HDR) (Cat6a)
- Bi-directional 48v PoH (Power Over HDBaseT, only one Power Supply Needed)
- I-Pass Feature for control system "pass-through"
- 3-20v protection circuit built in for safe IR transport
- Bi Directional RS232 Transport
- LED Status, Link, Power indication lights
- Use single UTP/STP LAN cable (CAT-5E/6A) with substitute HDMI cable to achieve long distance transmission
- Supports uncompressed PCM 2- Ch., LPCM 5.1 & 7.1, Dolby Digital, DTS, Dolby TrueHD, DTS HD-Master Audio, Atmos on HDMI
- ESD protection circuitry (Inputs & Outputs) to 7KV
- Can Cascade