



## MC3-2To

4K60 HDBT 2xOUT Card with Analog Audio

| Ethernet - RJ-45 | HDBaseT | 4K/60 UHD (4:4:4)



MC3-2To is a high-performance two-port HDBaseT card which is part of the compatible modular matrices multi-signal cards family. MC3-2To can flexibly occupy any of the matrix card slots and its output signals are independently switched by the modular matrix to any of the matrix input ports.

MC3-2To Ethernet port, dual RS-232 and dual IR ports enable control signal extension from the connected HDBT receivers, in addition to the card dual analog audio ports which enable, independently per port, audio de-embedding or embedding

## FEATURES

**High Performance Standard Extender** - Professional HDBaseT extender for providing long-reach signals over twisted-pair copper infrastructures. It employs low-level video compression technology that delivers visually lossless performance for 4K@60 (4:4:4) and HDR signals with near-zero latency. This high-quality compressed signal is extended to almost double the extension reach of the uncompressed signal

**Future-proof, Standard Extender** - Matrix card is a standard HDBaseT extender, backwards compatible with other standard HDBT extenders. It extends either compressed or uncompressed HDBaseT signal, by auto-adapting to the compression capabilities of its connected extender. This enables it to be connected to any market-available HDBaseT-compliant extension product

**Intelligent Compression Handling** - Automatically detects a standard HDBaseT extender without compression and disables the compression to extend the signal in compliance with the detected extender

**HDMI™ Signal Distribution** - HDCP 2.2 compliant, supporting deep color, x.v.Color™, CEC, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified by the HDMI 2.0 standard

**Multi-channel Audio Transmission** - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound

**Ethernet Extension** - Ethernet interface data flows in both directions, allowing extension of up to 100Mbps Ethernet connectivity for LAN communication and device control

**Intelligent Forward Audio Routing** - Per user selection independently per port, the analog audio port input signal is converted into a digital signal and embedded into the transmitted output signal, or the embedded audio of the HDMI over HDBT output signal is de-embedded and output to the analog audio port. This enables temporarily overriding the audio with another audio source, or playing the transmitted audio on high-quality external speakers

**Intelligent ARC (Audio Return Channel) Routing** - The output-returned ARC signal, per user selection independently per port, is routed to the analog audio bidirectional port that is associated with the HDBT output port. This enables playing the ARC audio on high-quality external speakers, and controlling its volume using an IR remote control either via a remote AV acceptor device (such as a display) or via a local AV acceptor device (such as an AV Receiver with speakers)

**Bidirectional RS-232 Extension** - Serial interface data flows in both directions, allowing data transmission and device control

**Bidirectional Infrared Extension** - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line

**Easy Installation** - Supports PoE (Power over Ethernet) providing over HDBT cable, in parallel to signals extension, to a remote PoE acceptor such as a PoE wall-plate, when matrix is connected to PoE power supply module



## TECHNICAL SPECIFICATIONS

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Inputs	2 HDBaseT: On RJ-45 connectors
Ports	2 Unbalanced Audio: On a 6-pin terminal block connector 2 RS-232: On a 6-pin terminal block connector 2 IR: On a 4-pin terminal block 1 Ethernet: On an RJ-45 connector
Video	Max Data Rate: Up to 18Gbps (6Gbps per graphic channel), Up to 10Gbps over CAT cable  Standard Compression Max Resolution: 4096x2160@60Hz (4:4:4) 24bpp High Compression Max Resolution: 3840x2160@60Hz (4:4:4) 24bpp No-Compression Max Resolution: 4096x2160@60Hz (4:2:0) 24bpp  Compliance: HDCP 2.2  HDMI Support: HDR 10, deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0
Extension Line	Standards Compliance: HDBaseT 1.0  Compression CSC  Standard Compression: Up to 100m (330ft) at 4K@60Hz (4:4:4), 4K@60Hz (4:2:0) or 4K@30Hz (4:4:4)  Up to 180m (590ft) at full HD (1080p @60Hz 24bpp)  High Compression: Up to 100m (330ft) at 4K@60Hz (4:4:4), or 4K@60Hz (4:2:0)  Up to 180m (590ft) at 4K@30Hz (4:4:4)  Up to 200m (650ft) at full HD (1080p @60Hz 24bpp)  No Compression: Up to 100m (330ft) at 4K@60Hz (4:2:0)  Up to 180m (590ft) at full HD (1080p @60Hz 24bpp)  Note: When using recommended Kramer cables
Extended Ethernet	Bandwidth: Up to 100Mbps
Extended RS-232	Baud Rate: 300 to 115200
Power	Consumption: 21.5W
Product Dimensions	25.00cm x 13.00cm x 2.00cm (9.84" x 5.12" x 0.79" ) W, D, H
Product Weight	0.3kg (0.7lbs) approx
Shipping Dimensions	29.20cm x 16.50cm x 6.00cm (11.50" x 6.50" x 2.36" ) W, D, H
Shipping Weight	0.5kg (1.1lbs) approx