



# kramer

## MC3-2R-2H

4K60 HDBT/HDMI 2xIN + 2xOUT Scaling  
Card

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



MC3-2R-2H is a high-performance two-port HDBaseT 3.0 input and two-port HDMI output card which is part of the compatible modular matrices multi-signal cards family. MC3-2R-2H can flexibly occupy any of the matrix card slots. Its input signals are independently switched by the modular matrix to any of the matrix output ports, and any matrix input signals are independently switched to its scaling output ports

## FEATURES

**High Resolution Audio-Visual Experience** - Modular matrix card supports high 4K60 4:4:4 HDMI signal distribution from and towards any input and output port of the modular matrix

**Valuable Fast Switching Experience** - Fast and clean presentation signal switching, ensures smooth transitions of displayed content, as distributed from multiple matrix input-connected sources

**High-Performance Scaling Presentation** - Built-in ProcAmp high-resolution scaling technology for optimal glitch-free output image display

**High Performance Standard Extender** - Professional HDBaseT extender for providing long-reach signals over twisted-pair copper infrastructures

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

**HDMI Signal Extension** - HDCP 2.2 and EDID signals are passed through from the source to the display. Supports HDR10, 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

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

**I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems

**Ethernet Extension** - Ethernet interface data flows in both directions, allowing extension of up to 1 Gbps Ethernet connectivity for LAN communication and device control

**Flexible USB 2.0 Extension** - An active USB host is connected to the extender at either the transmitter or receiver sides. USB 2.0 signals are extended between the extender transmitter and receiver sides, enabling connection of the active USB host to both local and remote USB HID (Human Interface Devices) devices such as mouse or keyboard devices

**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
Outputs	2 HDMI On HDMI connectors
Extension Line	Reach Up to 100m (330ft) Note: when using Kramer HDBaseT cables
	Standards Compliance HDBaseT 3.0
Video	Max Data Rate 18Gbps (6G per channel)  Max Resolution 4096x2160@60Hz (4:4:4) 24bpp  Resolutions 480i@30Hz, 480p@60/72/75/85Hz, 576p@50Hz, 600p@60/72/75/85Hz, 768p@50/60/70/75/85Hz, 800p@60Hz, 864p@75Hz, 900p@60Hz, 640x480p@60/72/75/85Hz, 720x480i@30Hz, 720x480p@60Hz, 720x576p@50Hz, 800x600p@60/72/75/85Hz, 848x480p@60Hz, 852x480p@60Hz, 1024x768p@60/70/75/85Hz, 1152x864p@75Hz, 1280x768p@60Hz, 1280x800p@60Hz, 1280x960@60Hz, 1280x1024p@60/75Hz, 1366x768p@60Hz, 1366x768p@50/60Hz, 1400x1050p@60Hz, 1440x900p@60Hz, 1600x900p@60Hz, 1600x1200p@60Hz, 1680x1050p@60Hz, 1920x1080i@50/60Hz, 1920x1080p@24/30/50/60Hz, 3840x2160p@24/30/60Hz RB, 4096x2160p@24/30/60Hz, 3840x2160p@24/30/60Hz  Max Switching Time between Inputs 1.5 seconds  Output Transition on Switching Smooth cut-thru  Video Latency 1–2 frames  HDMI Compliance 4K, HDR10 as specified in HDMI 2.0b  Content Protection HDCP 2.2
Extended USB	Data Rate Up to 480Mbps  Throughput Up to 12Mbps  Device Type HID  Standards Compliance 1.1 and 2.0 USB
Extended Ethernet	Max Data Rate 1 Gbps
Extended RS-232	Baud Rate 9600 to 115200
Product Dimensions	25.50cm x 13.00cm x 2.00cm (10.04" x 5.12" x 0.79" ) W, D, H
Product Weight	0.4kg (0.8lbs) 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

