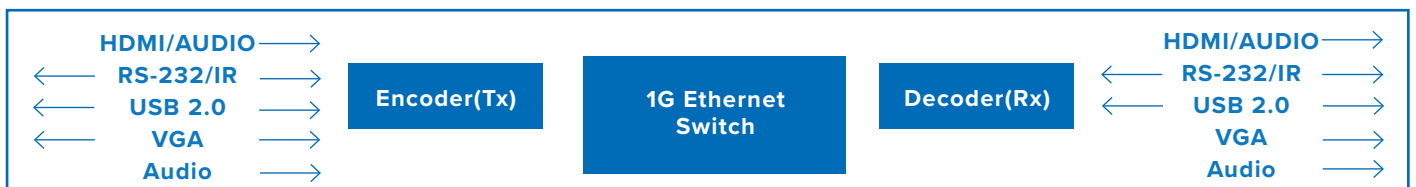


AV Over IP HDMI/VGA Encoder (Tx) & Decoder (Rx) with PoE (over Fiber or CAT 5e)

LBN-MST



LBN-MSR



OVERVIEW

The AVoIP HDMI/VGA Encoder(Tx) & Decoder (Rx) System provides stunning 4K video distribution over Fiber or CAT 5e at a very cost effective price point. Engineered for simplicity in mind, the AVoIP System is designed to operate exactly like a conventional Matrix Switcher and is configured to work out of box with no IP knowledge required. The AVoIP Matrix Switching Controller automatically detects connected Encoders and Decoders that provides drop down menu simplicity for configuring all connected devices. Featuring basic EDID and HDCP management with extremely low latency video, this is an ideal solution for digital signage with advanced video wall processing and video distribution for training rooms, classrooms and conference rooms.

FEATURES

- Leveraging advanced network IP video technology for conventional 4K HDMI video matrix switching
- Operates exactly like a conventional HDMI video matrix switcher, via API commands or virtual front panel buttons
- Perfect for users with minimum IP network knowledge/experience
- Accommodate up to HDMI 1.4 (4K@30Hz, 4:4:4) signals, with external audio, RS-232, IR, and USB
- Extend and switch HDMI video over CAT-5e/6 cable up to 100m, with negligible latency
- Remote powering via PoE
- Support RS-232, Telnet, and Web GUI Control
- Virtual front-panel buttons for quick, manual operation

VIDEO/AUDIO SPECIFICATIONS

HDMI	HDMI 1.4, up to 4K@30Hz 4:4:4 or 4K@60Hz 4:2:0 8-bit Embedded Audio: Stereo or 7.1 Surround Sound HDMI Female Connector
VGA	Up to 1920x1200 (WUXGA) @ 60Hz HD-15 connector
Port Count	Tx: 1-HDMI Input, 1-VGA Input, 1-VGA-Loopback Rx: 1-HDMI Output and 1-VGA Output

AUDIO

External Audio	3.5mm mini-stereo jack
Port Control	Tx: 1-Line Input and 1-Line Output Rx: 1-Line Output and 1-Mic Input

SERIAL DATA

Serial Rate	RS-232
Data Rate	Up to 115.2 Kbaud
Connector	DB-9
Port Count	One RS-232 in TX and in RX

IR CONTROL

Data Rate	30-50 KHz
Connector	3.5mm Mini Jack
Port Count	Tx: Input/Output Rx: Input/Output

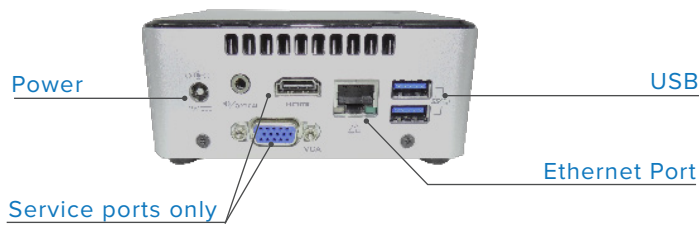
USB

Mode	Tx: USB Host Rx: 4-USB Device
Port Count	One USB-Host in TX and Four USB-Device in RX

1G ETHERNET PORT (TX/RX)

Connector	RJ-45
Transmission Distance	100m CAT-6a @4K30, 4:4:4 70m CAT-5e/6 @4K30, 4:4:4

AVoIP Matrix Switching Controller- LBN-MSX



PHYSICAL

Dimensions Standalone	7.75"(W) x 4.25"(D) x 1.1"(H)
Power Consumption	Encoder: 8.5W Maximum Decoder: 7.5W Maximum
Operating Temperature	0 to 40°C
Humidity	0 to 90% RH, Non-Condensing

CERTIFICATIONS

CE, FCC (Power Supply)

GREEN COMPLIANCE

RoHS

ORDER INFORMATION

LBN-MST	AVoIP HDMI/VGA Encoder (Tx) with PoE (over Fiber or CAT 5e)
LBN-MSR	AVoIP HDMI/VGA Decoder (Rx) with PoE (over Fiber or CAT 5e)
LBN-MSX-P	AVoIP Matrix Switching Controller
LBN-MSX-RBS	Horizontal Rack Mount for LBN-MST or LBN-MSR
LBN-MSX-RBM	Vertical Rack Mount for LBN-MST or LBN-MSR
LBN-MSX-BE	Bracket Ears Required for Each Unit to be Mounted Vertically
LBN-MSX-SFP-SX	1G SFP Multimode Fiber Module
Included Accessories	12V DC Power Adapter (Encoder/Decoders) 19V DC Power Adapter (Controller)

PANEL DRAWING

