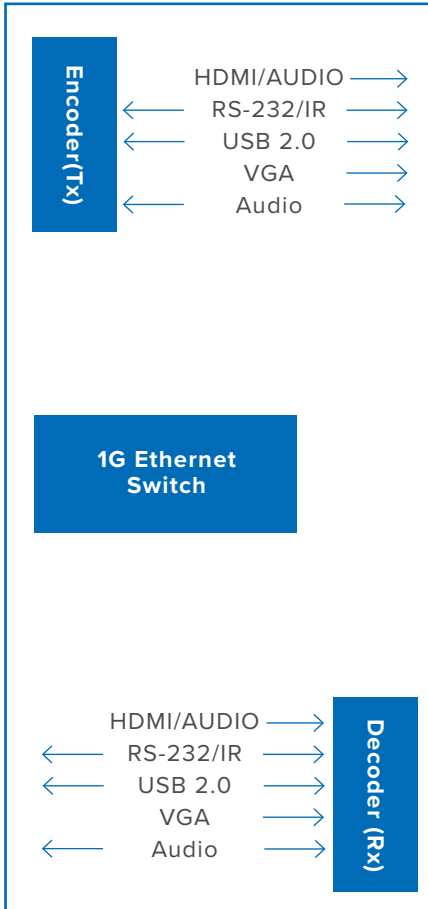


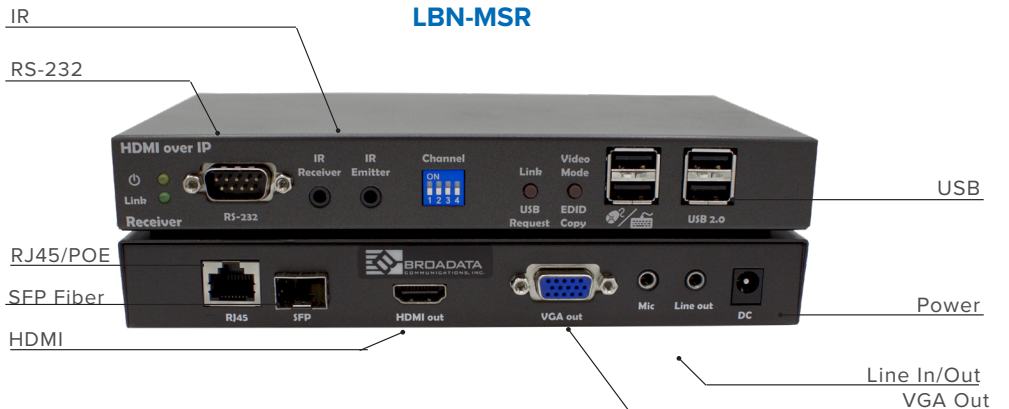
AV over IP HDMI/VGA Encoder (Tx) & Decoder (Rx) with PoE (over Fiber or CAT 5e)



**HDMI/VGA Encoder (Tx)
LBN-MST**



**HDMI/VGA Decoder (Rx)
LBN-MSR**



OVERVIEW

The AVoIP HDMI/VGA Encoder(Tx) & Decoder (Rx) with PoE (over Fiber or CAT 5e) provides stunning 4K video distribution 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 devices connected to the Encoder/Decoder and the BCI App provides drop down menu simplicity for routing all connected devices. Featuring advanced EDID along with HDCP management and 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 18G 4K HDMI video matrix switching
- Operates exactly like a conventional HDMI video matrix switcher, via API commands or virtual key 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 1.4 video over CAT-5e/6 cable up to 100m, with negligible latency
- >100x100 input/output routing, based on Cisco SG300/500 Gigabit Ethernet switcher
- 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 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-Mic Input and 1-Line Output

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	One IR Input/Output in TX and in RX

USB

Mode	USB 2.0
Port Count	One USB-Host in TX and Four USB-Device in RX

RJ-45

Cable Type	CAT-5e/6
Distance	Depending Cable Spec (up to 100m)
Connector	RJ-45



PHYSICAL

Dimensions Standalone	7.75"(W) x 4.25"(D) x 1.1"(H)
Power Consumption	12 VDC @ 1 Amp (Max.)
Operating Temperature	0 to 40°C
Humidity	0 to 90% RH, Non-Condensing

CERTIFICATIONS

CE, FCC

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-MSC	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
Included Accessories	12 VDC Power Adapter

PANEL DRAWING

