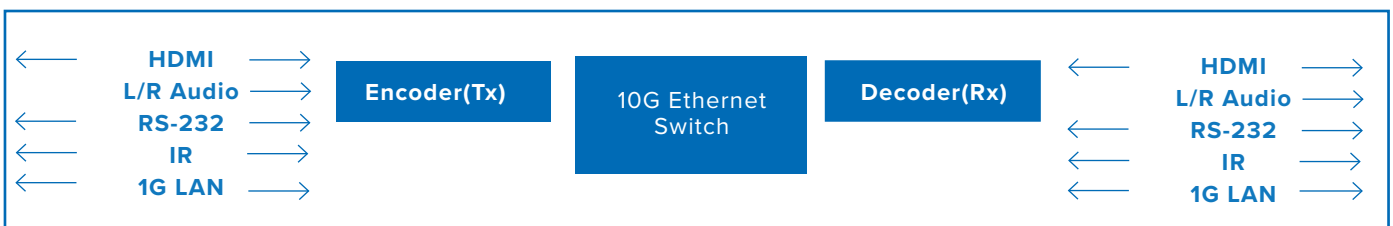


# 10G AV Over IP HDMI Transceiver (Tx or Rx) Over CATx IP Networks LBN-10GTRC



## OVERVIEW

The LBN-10GTRC is a SDVoE-Compliant, All-In-One AV over IP Transceiver that provides high-quality, uncompressed 4K and zero-frame latency Audio/Video extension over Ethernet. The Transceiver functions in either Encoder/Tx or Decoder/Rx Modes to provide easy scalability. Multiple control and data signals can be simultaneously transmitted with audio and video, including IR, RS-232, USB and Ethernet. The Transceiver is ideal for large event installations where multiple Transceivers can be combined with one or more 10GbE fiber Ethernet switches to form a distributed video matrix, a multi-viewer system, or a video wall system.

## FEATURES

- Supports HDMI 2.0 Video up to 4K60 4:4:4, together with Audio, RS-232, IR, and LAN, over a CATx 10G IP Network
- Visually Lossless Compression and Zero Latency
- HDCP 2.2 Compliant
- Supports pass-through 10/12-bit HDR sources
- TX Mode: HDMI Input & 10G IP Video/HDMI Output
- RX Mode: HDMI and 10G IP Video Input, and HDMI Output
- Provide Analog Audio Insertion and Extraction
- Bi-directional RS-232, IR, and full LAN 10/100/1000Mbps Extension

### VIDEO INPUT (TX & RX)

**Video Formats** Up to 4K60 4:4:4 HDMI 2.0

### VIDEO OUTPUT (TX & RX)

**Video Formats** Up to 4K60 4:4:4 HDMI 2.0  
**Connector** HDMI type A

### AUDIO

**Analog Audio Format** L/R Analog Unbalanced  
**Connector** 3.5mm Stereo Jack  
**Digital Audio Channels** 8 Maximum

### SERIAL DATA (TX/RX)

**Channel Capacity** 1 bi-directional  
**Signal Format** RS-232  
**Data Rate** 115,200 baud maximum  
**Connector** 3-pin Terminal Block

### IR (TX/RX)

**Channel Capacity** 1 bi-directional  
**Data Rate** 30-50KHz  
**Connector** 3.5mm Jack

### ETHERNET (TX/RX)

**Channel Capacity** 1  
**Ethernet Speed** 10/100/1000Base-T  
**Connector** RJ-45

### 10G ETHERNET PORT (TX/RX)

**Connector** RJ-45  
**Transmission Distance** 100m CAT6a @4K60, 4:4:4  
 70m CAT5e/6 @4K60, 4:4:4

### STATUS LED INDICATORS (TX/RX)

**Power** Indicates input power present  
**T/R** Indicates if device is TX or RX  
**Source** Indicates Indicates which local video input is selected  
**Link TX** Indicates 10G transmission activity  
**Link RX** Indicates 10G receiver activity  
**Video** Indicates stable video  
**GbE** Indicates local Ethernet activity

### CONFIGURATION

On-Screen Display  
 Front Panel Buttons  
 10G AVoIP Matrix Switching Controller (LBN-10GMSC)

### PHYSICAL

**Dimensions Standalone** 9.11"(W) x 4.59"(D) x 0.98"(H)  
**Power Consumption** 12V DC @ 3.0A  
**Operating Temperature** 0 to 40°C, operating  
**Humidity** 20 to 90% RH, Non-Condensing

### CERTIFICATIONS

CE, FCC

### GREEN COMPLIANCE

RoHS

### ORDER INFORMATION

**LBN-10GTRC** 10G AV Over IP Transceiver Over CATx IP Networks  
**Included Accessories** 12V DC, 3A Power Adapter

### PANEL DRAWING

