BROADATA
COMMUNICATIONS, INC.

Link Bridge™ HDBT/HDMI Receiver with Inline Control Processor

HDMI Video In

HDMI Video Out

Power LED

Power Input

LAN 1 & 2 RJ-45

HDBaseT In

IR Out

Audio In

Audio Out

Audio Input Switch

RS-232 Control

Keypad Control

Reset

Channels, RS-232 1-4, Relay 2, Digital I/O 1 & 2

Ethernet
RS-232
Video

Transmitter/ Receiver

Single CAT-5e/6 Cable

Video — Audio

LBC-H/O-R-ICP

RS-232 x4
Ethernet x2
IR
Video
Audio
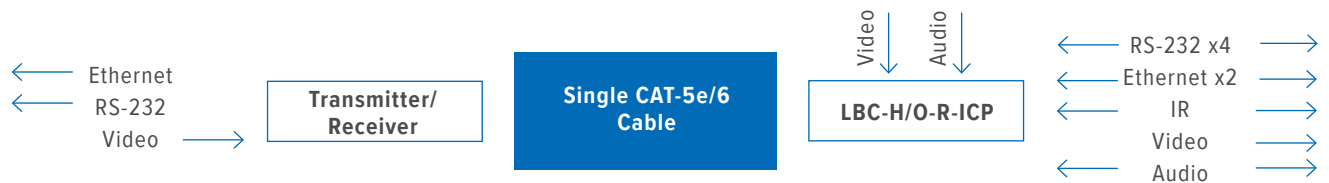
OVERVIEW

The HDMI over single CAT5e/6/7 Transmitter and Receiver set can send uncompressed audio/video and IP data over a single run of CAT5e/6/7 cable at a distance up to 100 meters. It has the added benefit of control through the built-in RS-232 and IR ports, USB and bi-directional LAN connection. The Receiver can be powered by the PoH 48V function of the Transmitter, allowing for greater flexibility in installations.

FEATURES

Receiver

- Receive HDMI, audio, IR, and RS-232 up to 100 meters over 1 CAT-5e/6 cable
- Supports video resolutions up to 1080p 60Hz and 1920x1200 @ 60Hz, as well as 4K @ 30Hz
- Optional 1080p scaler
- Supports HDMI w/embedded audio extraction
- HDCP 2.2 support

Control

- Control and monitor AV devices using a standard Ethernet network (Smart phone or PC) or RS-232 (keypad)
- User friendly customizable control configurations via build-in web server

Smart Panel Touch Control

- Enable Wi-Fi remote control using Android APP in a smart touch panel
- Capable of user configured GUI pages

VIDEO OUTPUT (TRANSMISSION)

HDMI	Up to 1080p @ 60Hz or 1920x1200 @ 60Hz or 4K @ 30Hz without scaler option)
Connector	HDMI Female Plug
Protocol	DDC/EDID/HDCP Capable

AUDIO INPUT/OUTPUT (TRANSMISSION)

Signal Format	L/R Analog
Audio Output Connector	Terminal Block

RS-232 (TRANSMISSION)

Data Rate	Up to 57.6kbaud
Connector	Terminal Block

IR (TRANSMISSION)

Data Rate	30-60 KHz
Connector	Terminal Block

HDBaseT (TRANSMISSION)

Cable Type	CAT-5e/6 or higher
Number of cables	1
Connector/Distance	RJ-45/up to 100m

ETHERNET (CONTROL)

Channel Capacity	2
Connector	Female RJ-45 (integrated activity and link LED)
Data Rate	10/100Base-T, half/full duplex with autodetect
Protocols	DHCP, HTTP, TCP/IP, UDP/IP, AUTOIP, Telnet

RS-232 (CONTROL)

Channel Capacity	3 (no flow control) or 2 (with RTS/CTS flow control)
Baud Rate	2400 to 115200 baud (9600 baud=default), 8 data bits, 1 stop bit, no parity
Connector	Terminal Block

DIGITAL I/O (CONTROL)

Channel Capacity	2 digital input/output (configurable)
Digital Input	Input voltage range: 0 to 24VDC
Threshold low to high: 2 VDC
Threshold high to low: 0.8 VDC
Digital Output	Output Voltage high: 3 VDC min
Output voltage low: 0.55 VDC max (64 mA sink max)
Connector	Terminal Block

IR (CONTROL)

Channel Capacity	1 out
Connector	Terminal Block
Carrier Frequency	30 kHz to 60 KHz (Output)
30 kHz to 60 kHz (IR learning)

RELAY (CONTROL)

Channel Capacity	2 normally open/normally closed relays
Relay Contact Rating	24 VDC, 1A
Connector	Terminal Block

PHYSICAL

Dimensions	8.36"(W) x 4.23"(D) x 1.12"(H)
Power Consumption	24 VDC @ 1.25 Amp
Operating Temperature	0 to 40ºC
Humidity	0 to 90% RH, Non-Condensing

CERTIFICATIONS

CE, FCC

GREEN COMPLIANCE

RoHS

ORDER INFORMATION

LBC-H/O-R-ICP	Link Bridge HDBT/HDMI Receiver with Control I/O Ports
LBC-H/O-R-ICP-SCL	Link Bridge HDBT/HDMI Receiver with Control I/O Ports, with 1080p Scaler

SUGGESTED MATING TRANSMITTERS

LBC-HDV-T-ICP	HDBT Transmitter, HDMI + DisplayPort + VGA, Standaloner
LBC-H/V-T-WP-ICP	HDBT Transmitter, HDMI + VGA, Wall Plate
LBC-HDBT-T	HDBT Transmitter, HDMI/Audio + IR + RS-232, Standalone
LBC-H-T-WP	HDBT Transmitter, HDMI only, Wall Plate
Included Accessories	
Optional Accessories	