



This HDBaseT 2.0 Transmitter is designed for use in environments needing a wide range of flexibility when it comes to inputs, outputs, and control. The three most common video input interfaces (HDMI, DisplayPort, and VGA w/ stereo audio) are included, providing the ultimate in source compatibility and flexibility. The HDMI and DisplayPort inputs support resolution/timing up to a maximum of 4K@60Hz (4:4:4, 8-bit) which is converted, when appropriate and necessary, for transmission over HDBaseT. The selected source (video & audio) can be transmitted over Cat.6/7 cable up to 100m along with bi-directional Ethernet, RS-232, USB, and IR. Due to the matrixing capability of this unit, any source may also be selected for independent output over the local HDMI output. The included microphone input, with optional 48V/5V phantom power support, feeds directly into a DSP mixer, allowing for powerful presentations with live voice-overs mixed with the source's original audio or even an impromptu karaoke session.

When paired with this unit's standard Receiver, up to 3 switchable USB 2.0 host (Type B) connections are available (2 on the Transmitter, 1 on the Receiver) which connect to 6 USB 2.0 (Type A) device ports (3 on the Transmitter, 3 on the Receiver) for a multi-source, bi-directional, and highly flexible KVM configuration (Note: Only 1 USB host may be active at a time). This Transmitter also provides an interface for a remote control keypad, or trigger interface, which can be easily installed within a podium or table in a conference room or classroom.

This Transmitter may be powered locally using a standard power supply, or it can be powered via PoH (Power over HDBaseT) provided by a compatible Receiver (PSE), allowing for greater flexibility within different installation scenarios. This unit is controllable via front panel controls, WebGUI, Telnet, Triggers, and RS-232.

FEATURES

- HDMI and DisplayPort with 3D, & 4K video support (18Gbps)
- HDBaseT 2.0 compatible
- Selectable HDMI, DisplayPort, and VGA inputs
- HDMI and DisplayPort inputs support resolutions up to 4K@60Hz (4:4:4, 8-bit)
- VGA input supports resolutions up to 1080p60/WUXGA (RB)
- HDMI output supports resolutions up to 4K@60Hz (4:4:4, 8-bit)
- HDBaseT output supports resolutions up to 4K@60Hz (4:2:0, 8-bit) or 4K@30Hz (4:4:4, 8-bit). 4K@50/60Hz (4:4:4, 8-bit) or 4K@any (10/12-bit) sources will be automatically color space converted to fit within the available bandwidth
- 4x2 matrix switching (HDMI and HDBaseT outputs are independent)
- Supported HDBaseT features: HD video and audio, 100BaseT Ethernet, PoH, and control (bi-directional IR/RS-232/USB pass-through)
- Supports pass-through of 8 channel LPCM, Bitstream & HD Bitstream audio formats
- Balanced analog stereo audio breakout
- Microphone input supports optional 48V or 5V phantom power
- Microphone input feeds into a DSP mixer allowing adjustable mix level controls
- Flexible USB host selection using front panel buttons
- Multiple USB hosts may be connected at once (up to 3 total, between the Tx and a compatible Rx unit) with a single selected host active at a time
- Supports extended keypad (trigger) control for easy, single button, function activation (optional equipment)
- Supports local power, or power via PoH from a connected Receiver (PSE) (compatible Receivers only)

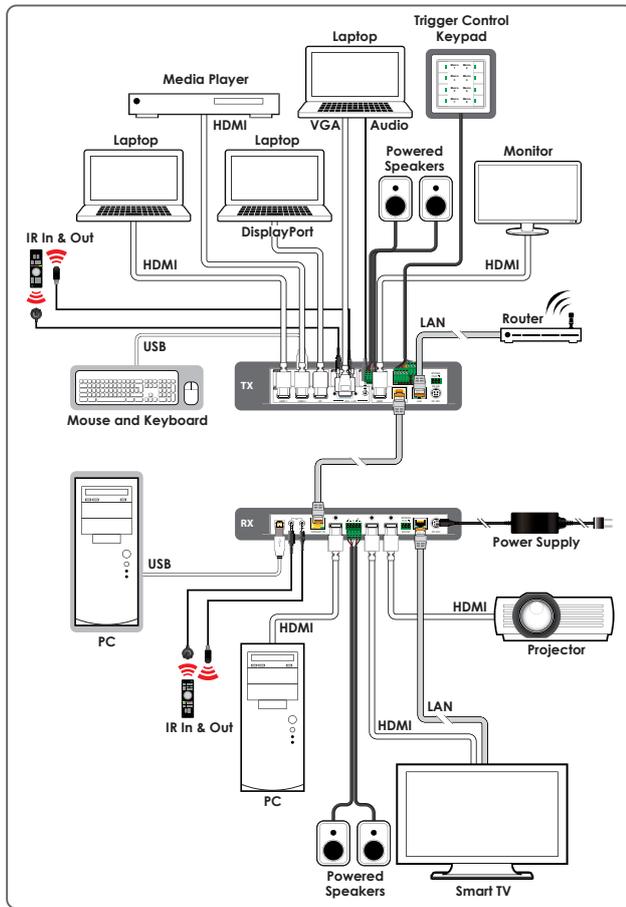
PANELS



Front View

Rear View

DIAGRAM



SPECIFICATIONS

Interfaces

Input Port	2×HDMI (Type-A) 1×DisplayPort 1×VGA (HD-15) 2×Unbalanced Stereo (3.5mm) 1×Microphone (6.35mm)
Output Port	1×HDBaseT (RJ-45) 1×HDMI (Type-A) 1×Balanced Stereo (5-pin Term. Block)
Control I/O	1×RS-232 (3.5mm) 1×Trigger (10-pin Terminal Block) 1×LAN (RJ-45)
Pass-through Port	1×IR Extender (3.5mm) 1×IR Blaster (3.5mm) 2×USB 2.0 (Type A) 2×USB 2.0 (Type B) 1×RS-232 (3-pin Terminal Block) 1×USB 2.0 (Type A) with Service function

Video

HDMI Compliance	2.0
HDCP Compliance	2.2
Input Signal Type	4K@60 YUV 4:4:4
Output Signal Type	4K@60 YUV 4:2:0

Resolutions

Maximum Input	HDMI	4096x2160p@60
	DisplayPort	4096x2160p@60
	VGA	1920×1200p@60RB
Maximum Output	HDMI	4096x2160p@60
	HDBaseT	4096x2160p@60 YUV 4:2:0

Audio

HDMI	LPCM 8 channel Bitstream High-Definition Bitstream
Line In	Max Audio Level: 1Vrms Impedance: 10kΩ Type: Unbalanced

Power

Power Supply	24V/3.75A DC (US/EU standards, CE/FCC/UL certified)
Power Consumption	23.54W

Enclosure

Chassis Material	Metal (Steel)
Chassis Color	Black
Dimensions (W×H×D)	231.5mm×44mm×167mm [Case Only] 231.5mm×44mm×174mm [All Inclusive]
Weight	1204g

Field Firmware Update

USB Flash Drive, WebGUI

ORDERING INFORMATION

Model No.	Product Description
CH-2603TX	HDMI/DP/VGA/USB to HDMI/HDBaseT Transmitter
CH-2603RX	HDMI/HDBaseT/USB to HDMI Receiver
CH-2606RX	HDBaseT to HDMI/USB Receiver