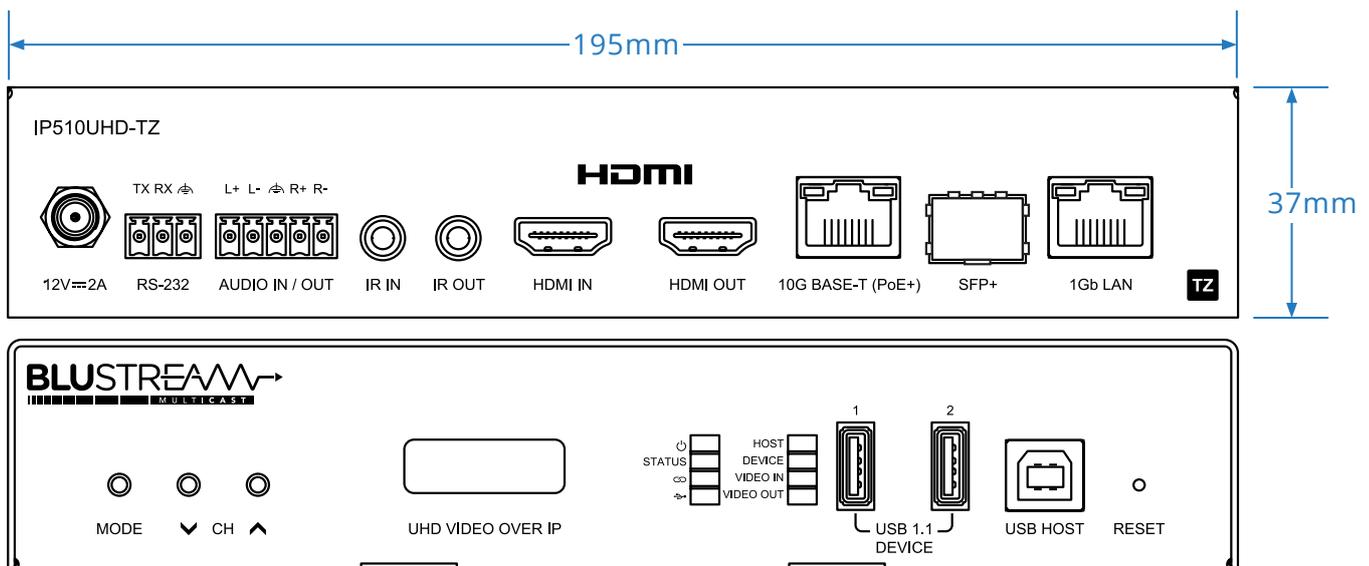


Simultaneous UHD Video over IP - Transceiver

Description

The Blustream IP510UHD Transceiver is a SDVoE Compliant AV over IP solution that provides the highest-quality, uncompromised 4K with zero latency Audio/Video extension over copper or optical fibre 10G network. The IP510UHD-TZ is capable of simultaneously encoding HDMI video source material whilst decoding a separate HDMI stream from within the SDVoE network, and includes support for distribution of HDR (High Dynamic Range), 10 / 12-bit colour content and multi-channel HD audio signals.

The IP510UHD-TZ provides advanced features including PoE+ and transmission of multiple control and data signals alongside audio and video, including IR, RS-232, USB (KVM) and 1Gb Ethernet. The IP510UHD-TZ is ideal for 18Gbps HDMI installations where multiple transceivers can be combined with one or more 10GbE copper / fibre switches to form a distributed video matrix, multi-viewer, or video wall system.

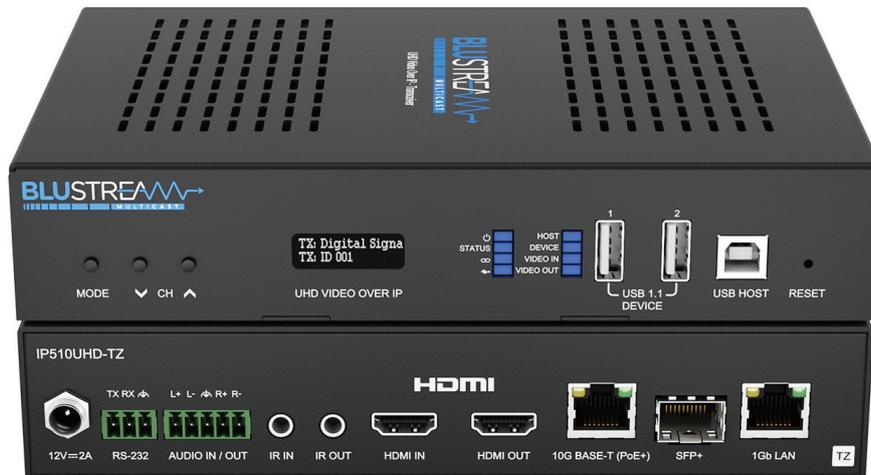


Key Features

- Simultaneous encoding and decoding of 18Gbps UHD Video over 10Gb network with visually lossless compression and zero latency
- Supports HDMI 2.0 18Gbps specification with pass-through for up to 4K 60Hz 4:4:4 and 10/12-bit HDR sources, including Dolby Vision*
- Supports video scaling and single-frame switching
- Supports all known digital HDMI audio formats including Dolby TrueHD, Atmos, DTS-HD Master Audio and DTS:X transmission
- Supports fixed signal routing function for IR, RS-232, CEC and USB
- USB 1.1 end to end/point to point pass-through for KVM
- Analogue L/R audio embedding and audio breakout (balanced and unbalanced)
- Bi-directional 10/100/1000BaseT Ethernet pass-through
- Supports bi-directional 5V or 12V IR pass-through
- PoE+ (Power over Ethernet) to power Blustream products from PoE+ switch
- HDCP 2.2 compliant with advanced EDID management
- Local 12V 2A power supply (should Ethernet switch not support PoE+)
- Features 4 operational modes:
 - Matrix distribution (requires 10Gb network switch)
 - Video Wall (requires 10Gb network switch)
 - Multiview mode (requires 10Gb network switch)
 - One-to-one HDMI extender (no network switch required)

*HDR and Dolby Vision content requires Genlock mode to be enabled (video scaler in passthrough mode)

Blustream cannot be held responsible for errors in typography or photography. Specifications are subject to change without notice.



Connectivity

- **Video Input:** 1x HDMI Type A, female
- **Video Output:** 1x HDMI Type A, female
- **Latency:** 100 microseconds (0.1ms) with no video compression (<16ms with mild video compression - 10-18Gbps HDMI signals)
- **Audio Input / Output Connector :** 1x 5-Pin Phoenix connector
- **Ethernet Port:** 1x 10GBaseT RJ45 video network, 1x SFP+ module video network, 1x 1Gb LAN RJ45 pass-through
- **RS-232 Serial Port:** 1x 3-Pin Phoenix connector
- **USB / KVM Port:** 1x USB-Type B (host) , 2x USB-Type A (device)
- **IR Input:** 1x 3.5mm stereo jack
- **IR Output:** 1x 3.5mm mono jack

Specifications

- **Operating Temperature:** 32°F to 104°F (0°C to 40°C)
- **Storage Temperature :** -4°F to 140°F (-20°C to 60°C)
- **Unit Dimensions (W x D x H):** 195mm x 160mm x 37mm (without feet & connections)
- **Unit Dimensions (W x D x H):** 195mm x 160mm x 37mm (with feet & connections)

Included Accessories

- 1 x IP510UHD-TZ Transceiver
- 1 x IR Receiver
- 1 x IR Emitter
- 4 x Rubber Feet
- 1 x Mounting Kit
- 1 x Quick Reference Guide

Control

- IR
- App (via ACM500)
- RS-232 (via ACM500)
- TCP-IP (via ACM500)
- Front Panel Buttons

Regulatory Compliance



Blustream cannot be held responsible for errors in typography or photography. Specifications are subject to change without notice.