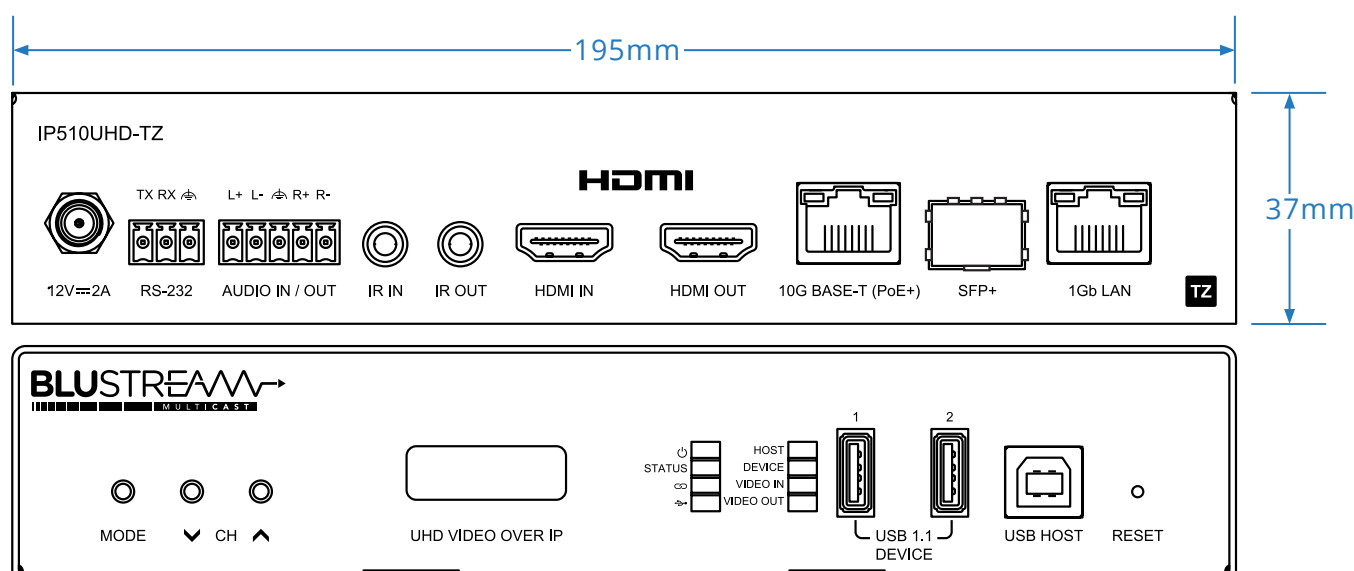


Simultaneous UHD Video over IP - Transceiver

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.

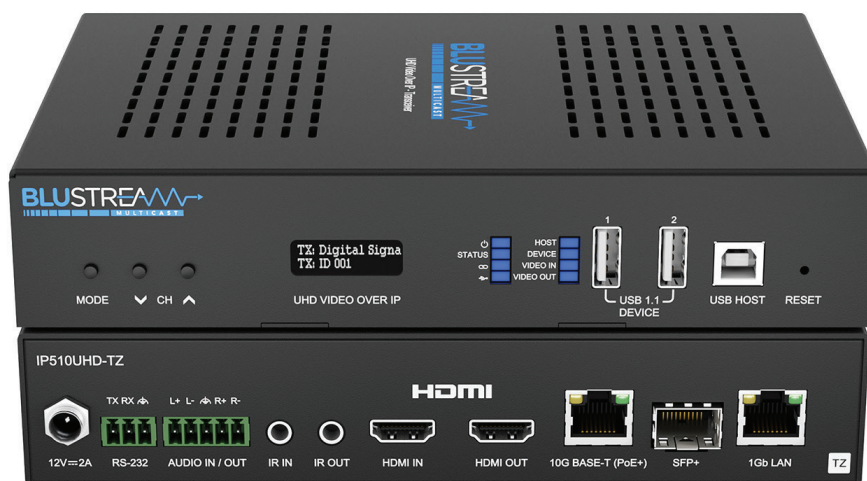
The IP510UHD-TZ provides advanced features including PoE+ and transmission of multiple control and data signals alongside audio and video, including IR, RS-232, USB (KVM) and 1Gb Ethernet. The IP510UHD-TZ is ideal for 18Gbps HDMI installations where multiple transceivers can be combined with one or more 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
- Supports video scaling and single-frame switching
- Supports bitstream passthrough of multichannel surround sound including object-based audio formats in line with HDMI specifications.
- 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)

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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



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