



## 10G SDVoE HDMI 4K60 4:4:4 over IP w/Videowall and multiview with USB 2.0 Cooper/Fiber Transceiver

This transceiver is an SDVoE-Compliant, All-In-One AV over IP solution that provides the highest-quality, uncompressed 4K and zero-frame audio/ video extension over a standard 10G Copper or Fiber Network Switch with instant switching, Video Wall, and Multiview functions. It can transfer advanced HDMI content such as HDR (high dynamic range), full-color depth, and multi-channel HD Bitstream audio. A flexible transceiver design (one box can be set to encoder or decoder) is much more convenient in an installation site and inventory control. Its built-in Secondary Stream supports a high-quality, bandwidth-configurable H.264/H.265 compression video stream for portable device preview purposes. Multiple control and data signals can be simultaneously transmitted with audio and video, including bi-directional IR, RS-232, USB KVM, CEC, and 1G Ethernet.

### Feature Highlights

- HDMI 2.0b and HDCP 2.2 compliant
- Supports video resolution up to 4K@60Hz 4:4:4, 18Gbps video bandwidth
- Flexible transceiver design (Encoder, Decoder, Copper, and Fiber ports within a single box)
- Encoder or Decoder mode can be set via Button or API
- Automatic detection of Fiber and Copper ports (priority can be set)
- The Encoder supports HDMI Loop out
- Supports HDR10, Dolby Vision, HLG, 3D as well
- Supports complete HDMI audio formats, up to Dolby TrueHD, Dolby Atmos, and DTS-HD, DTS:X
- Supports Zero-Frame latency operating mode
- Supports signal extension, seamless switching, Matrix, Video Wall up to 9x9 and Multiview up to 25 windows
- Flexible audio routes control, including bidirectional analog audio transmissions between Encoder and Decoder
- Built-in H.264/H.265 Secondary Stream (SS) for preview
- Supports Secondary Stream VLAN tagging and parameters configuration
- Supports bi-directional IR and RS-232 control signal pass-through
- Supports USB2.0 (KVM), CEC routing control
- Supports IR, RS-232, TCP/IP, Web GUI control
- Standard POE supported (802.3at PD device)



## SPECIFICATIONS

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Input Format	10GBaseT
Network Video Bandwidth	10G
Video Resolution	Up to 4K@60Hz 4:4:4
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
Color Depth	Full Color-Depth
HDR	HDR, HDR 10, HDR10+, Dolby Vision, HLG
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD, DTS:X
Analog Audio Formats	Left and Right stereo analog audio
Transmission Distance	100M (CAT6A/7) / 90M(CAT6)
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Resolution / Cable Length	4K60 - Feet / Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M

The use of "Premium High-Speed HDMI" cable is highly recommended.

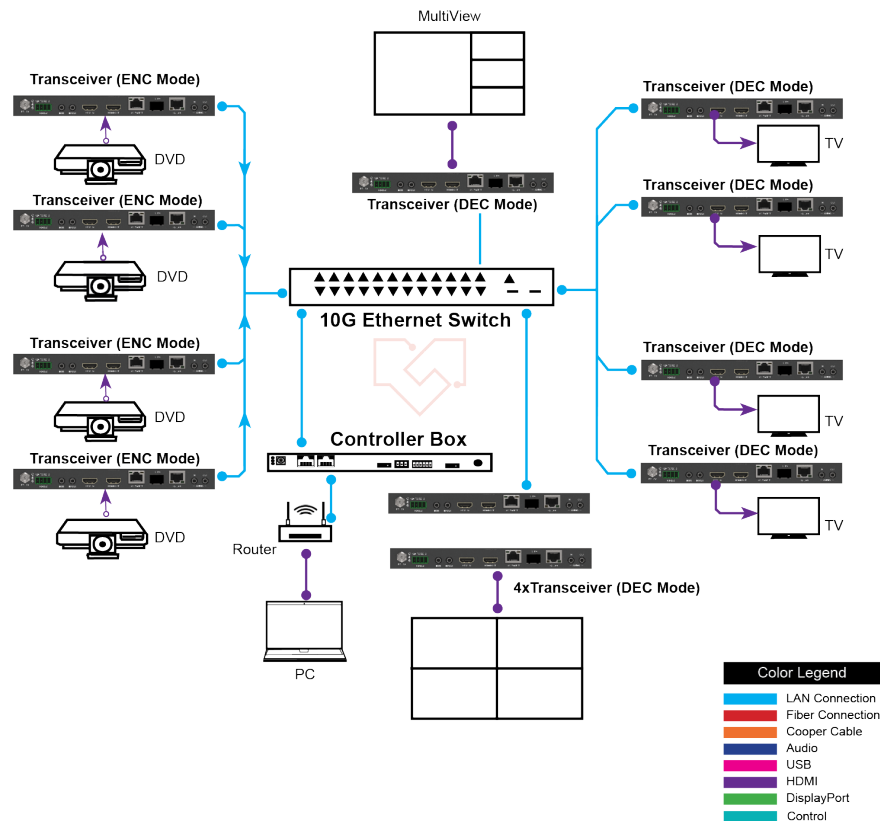
## MECHANICAL

Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	204mm [W] x 134mm [D] x 21.5mm [H]
Weight	693g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 12V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	≈13.5W
Operation Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (Non-Condensation)

## CONNECTIONS

Input Ports	1 x HDMI IN [Type A, 19-pin female] 1 x USB 2.0 HOST [Type B, 4-pin female] 1 x IR IN [3.5mm Jack] 1 x AUDIO IN [3.5mm Jack] 1 x RS-232 [4-pin phoenix connector]
Output Ports	1 x HDMI OUT [Type A, 19-pin female] 1 x AUDIO OUT [3.5mm Jack] 1 x IR OUT [3.5mm Jack] 2x USB 2.0 DEVICE [Type-A, 4pin female]
Network ports	1 x 10G BASE-T [RJ45 jack] 1 x 10G SFP+ [Fiber slot] 1 x 1G LAN [RJ45 jack]

## Classic Application Example



Applications

Digital Signage, Conference Rooms, Operating Rooms and Audio-Video Rooms