



# SDV-FTRX-BD

SDVoE Full 4K 10G AV Over IP Bi-directional Fiber Based Transceiver with USB Extension



The SDV-FTRX-BD is designed for high-quality, IP routable, AV extension with minimum latency for the SDVoE range of 10G AV over IP. Every Transceiver is capable of simultaneous bi-directional AV extension, enhancing the flexibility of any installation. By using a sophisticated ultra-light compression scheme (lossless for most content) it's a great solution for extending 4K audio/video streams (HDMI or Display Port) and data.

Advanced HDMI content such as HDR (High Dynamic Range), 10-bit colour and multi-channel HD Bitstream audio can be transmitted in pass-through mode. With the use of standard Fiber cable allows for point-to-point transmission of the video signal up to 300m via supplied Multi-Mode fiber module. Multiple control and data signals may also be transmitted along with the audio and video, including IR, RS-232, USB 2.0, and Ethernet.

When combined with the optional IP Master Controller (SDV-CS8), the functionality of the Transceiver expands exponentially. Multiple Transceivers or SDVoE TX/RXs may be combined with one or more 10-Gigabit Ethernet switches and the units can be used together to form a distributed video matrix, with multi-view and video wall configuration adding to their flexibility in large event installations.

The integrated USB hub of each Transceiver can function as a simple point to point KVM extension or freely routed between any two endpoints. This type of USB KVM routing flexibility enables a wide range of multi-user, control room, or on-demand installation scenarios. The built-in EDID and HDCP management functionality enables the unit to fit into every situation.

A specialised use of the SDV-FTRX-BD is for the creation of true multi-view signals within a video wall arrangement, simply add one SDV-FTRX-BD to any SDVoE system and through its bi-directional nature any user can simply directly connect the HDMI I/O, setting up the receiver side to a Multi-view arrangement and routing the transmitter side onto any video wall arrangement, saving having to purchase very expensive video wall processors.

Basic configuration of the unit can be achieved via front panel buttons with an OSD (On-Screen Display). Advanced control requires the optional IP Master Controller (SDV-CS8).

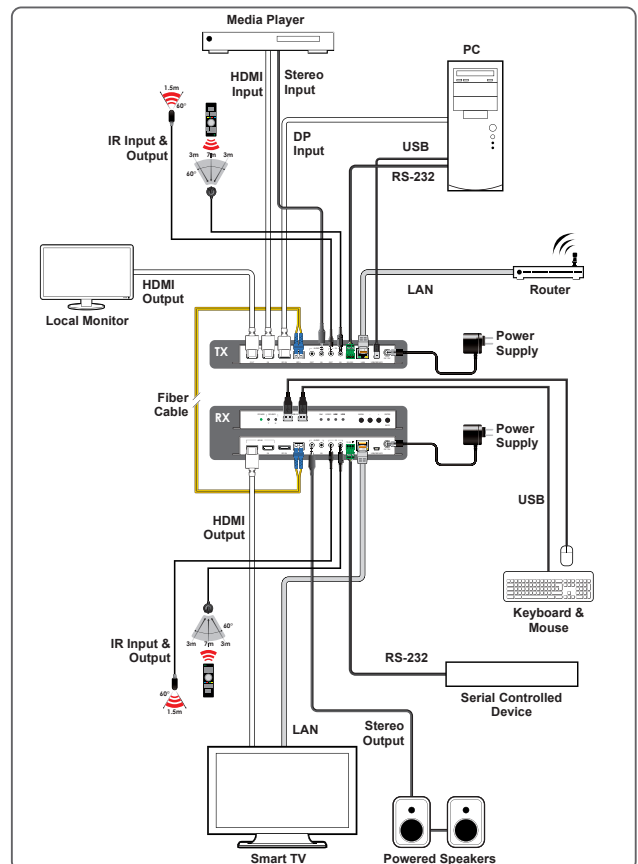
## PANELS



## FEATURES

- HDMI 2.0 and DVI 1.0 compatible
- HDCP 2.2 and HDCP 1.x compliant
- 1 HDMI and 1 DisplayPort input
- 1 HDMI output
- 1 analogue stereo input & 1 analogue stereo output
- 2 USB 2.0 (Type-A) ports and 1 USB 2.0 (Mini-B) port
- Transceiver supports simultaneous bi-directional AV signal extension
- IP switchable with minimum latency
- Ultra-light compression, lossless for most content
- Extension up to 30km (maximum distance depends on the SFP+ module and type of fiber used)
- Supports independent breakaway A/V matrix switching with minimal latency, video wall generation, and multiview compositing (requires SDV-CS8)
- Supports pass-through of 10/12-bit HDR sources
- Supports pass-through of audio formats including LPCM (up to 8 channels), Bitstream and HD Bitstream from HDMI or DP sources
- Analogue stereo audio extension, insertion and extraction (insertion and extraction requires optional IP Master Controller, the SDV-CS8)
- Bi-directional AV, IR, RS-232, USB 2.0, and Ethernet extension
- Supports a special Simultaneous Mode for USB extension allowing a host connected to a single transceiver to connect to up to 7 transceivers with USB devices connected (Mass storage devices are not supported in this mode. Requires optional IP Master Controller)
- Basic configuration via front panel buttons with an OSD

## DIAGRAM





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## SPECIFICATIONS

### Interfaces

Input Port	1 HDMI (Type A) 1 DisplayPort(Female) 1 Analogue(3.5mm)
Output Port	1 HDMI (Type A) 1 Analogue(3.5mm)
Bi-directional Port	1 10GbE LAN (SFP+)
Control I/O	1 Ethernet (RJ-45) 1 IR Extender (3.5mm) 1 IR Blaster (3.5mm) 1 RS-232 (3-pin terminal block) 1 USB (Mini-B) 2 USB(Type A)

### Video

HDMI Compliance	HDMI 2.0 (DVI 1.0)	
HDCP Compliance	2.X	
Input Signal Types	4096x2160p@60 YUV 4:4:4	
Output Signal Types	4096x2160p@60 YUV 4:4:4	
	<b>Resolutions</b>	
Maximum Input	HDMI	4096x2160p@60 YUV 4:4:4
	DP	4096x2160p@60 YUV 4:4:4
Maximum Output	SFP+ (Streaming)	4096x2160p@60 YUV 4:4:4
	HDMI	4096x2160p@60 YUV 4:4:4

### Audio

Digital Format	HDMI	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
	DP	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
	SFP+	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
Line Level	Line In	1 Vrms S/N Ratio: > 80dB (1kHz with 0dBFS)
	Line Out	1 Vrms S/N Ratio: > 80dB (1kHz with 0dBFS)

### Power

Power Supply	12V/3A DC (Locking)
Power Consumption	18.51W

### Enclosure

Chassis Material	Metal (Steel)
Chassis Colour	Black
Dimensions (W×H×D)	231.5mm×25mm×158mm [Case Only] 231.5mm×25mm×167mm [All Inclusive]
Weight	916g

### Field Firmware Update

PC

## ORDERING INFORMATION

Model No.	Product Description
SDV-FTRX-BD	SDVoE Full 4K 10G AV Over IP Bi-directional Fiber Based Transceiver with USB Extension
SDV-CS8	SDVoE 10G AV over IP Master Controller and Configurator