Technical Specifications

TL-SM3C-HDV

Three Input HDMI Share-Me™ Switcher with Extension and Control

The TechLogix Networx TL-SM3C series of Share-Me™ products build upon the core functions of the popular, easy-to-use functionality of the TL-SM3X1 series Share-Me™ products and add video signal extension plus a wider breadth of control for the display. With up to 70m (229 ft) of video extension for 1080p content, or 40m (131 ft) of 4K content, and the ability to power the extender set from the receiver end, the TL-SM3C series of Share-Me™ products allow for automatic power on/off commands to be transmitted from the unit (as well as connected table inserts) to the display, thereby providing a complete room connectivity and control solution.

The TL-SM3C-HDV transmitter features two HDMI inputs and one VGA input with video support up to 4K/30 plus multichannel audio, three control inputs for the TL-SMG series Share-Me™ grommet inserts, and auto-switch mode and manual switch mode. There is also an RS232 with 12V DC support connector to interface with the TL-TI-4C or any third-party controller that can operate within 12V DC at 0.5 A.

The TL-SM3C-HDV receiver features an HDMI output with CEC control to adjust volume and power states of the display. Additional display control capabilities are IR and RS232; relay outputs allow raising and lowering projector screens with momentary and latching configurations. The TL-SM3C-HDV receiver can de-embed stereo audio to the 3.5mm stereo analog port and RCA-style digital output port. There is also an Ethernet port to configure the entire TL-SM3C system.

Transmitter Inputs and Output

Video Inputs	2 HDMI 1 VGA
Video Input Connectors	2 female HDMI 1 female VGA (15-pin)
Input Video Signals	HDMI, VGA
Audio Input (with VGA)	1 stereo analog audio
Input Audio Signal	1 3.5mm mini jack
Twisted Pair Output	1 8P8C port (Shielded RJ45)
Control Ports	3 Dry Contact (C1~C3) 1 FIRMWARE 1 Share-Me™ Serial (TX, RX, Gnd, 12V DC) 1 IR Learn
Control Connectors	3 3.5mm mini jack 1 Micro-USB 1 4-pin removable terminal block 1 embedded IR receiver
12V DC Power	5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel (Locking)

Receiver Inputs and Outputs

Video Output	1 HDMI
Video Output Connector	1 female HDMI
Output Video Signal	HDMI
Audio Outputs	1 3.5mm mini jack 1 RCA
Twisted Pair Input	1 8P8C port (Shielded RJ45)
Control Ports	2 Relay (NO/NC) 1 FIRMWARE 1 RS232 (TX, Gnd, RX) 1 IR Out 1 LAN
Control Connectors	2 3-pin removable terminal block 1 Micro-USB 1 3-pin removable terminal block 1 3.5mm mini jack 1 8P8C port (Shielded RJ45)
12V DC Power	5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel (Locking)

Supported Video, Audio, and Control

Maximum Video Compatibility	*70 m: Deep Color 36/30/24 Bit at 1080p 40 m: Deep Color 48 Bit at 1080p, 3D, and 4k x 2k (UHD) up to 30 Hz: RGB, YCbCr 4:4:4, YCbCr 4:2:2; up to 60 Hz: YCbCr 4:2:0*
Video Compliance	*HDMI, HDCP 2.2, and CEC (Consumer Electronics Control)*
Embedded Audio	*Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio*
Input DDC Signal	*5.0 volts p-p (TTL)*
Input Video Signal	*0.5 to 1.0 volts p-p*
Audio Input Impedance	*>10kΩ*
Audio Output Impedance	*<24Ω*
Frequency Response	*20Hz~20K Hz*
Stereo Channel Separation	*>80dB @1KHz*
IR Carrier Frequency Range	*33-55kHz at 5 volts*
RS232 Baud Rates	*2400 to 115,200 baud*
Relay Contact Rating	*300 mA at 125 VAC, 1 A at 30 VDC*

Extender Signal Characteristics

Maximum Distance	*70 m: Deep Color 36/30/24 Bit at 1080p 40 m: Deep Color 48 Bit at 1080p, 3D, and 4k x 2k (UHD) up to 30 Hz: RGB, YCbCr 4:4:4, YCbCr 4:2:2; up to 60 Hz: YCbCr 4:2:0*
Cable Requirements	*Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern*
Bandwidth	*10.2 Gbps*

Power, ESD, and Regulatory

Maximum Power Consumption	*4.9W (TX), 6.7W (RX)*
Power Supply	*100-240v AC Input, 24v 2.71A Output with locking connector (C-UL/UL, CTick, CCC)*
ESD Protection	*15KV*
Regulatory	*CE, FCC*

Environmental Characteristics

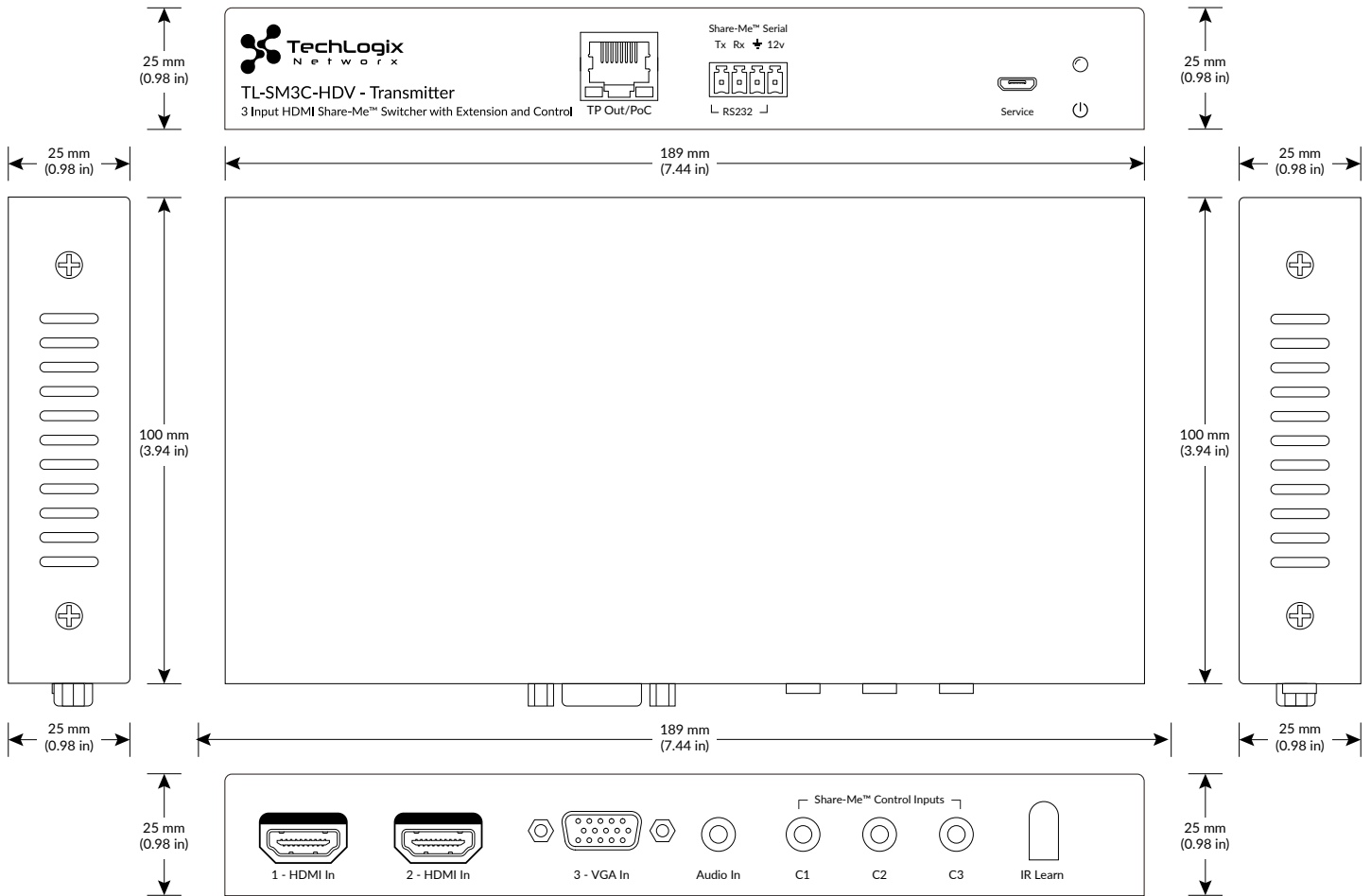|	
Operating Temperature (Environment)	*-10° to +40° C (14° to 104° F)*
Operating Temperature (Chassis)	*45° C (113° F)*
Operating Humidity (Environment)	*10% ~ 90%*
Storage Temperature (Environment)	*-15° to +70° C (5° to 158° F)*
Storage Humidity (Environment)	*0%~55%*

Chassis Characteristics

Enclosure	*Painted steel*
Transmitter Dimensions	*189mm x 100mm x 25mm (7.44 in x 3.94 in x 0.98 in)*
Receiver Dimensions	*170mm x 100mm x 25mm (6.69 in x 3.94 in x 0.98 in)*
Transmitter Weight	*0.34 kg (0.75 lbs)*
Receiver Weight	*0.34 kg (0.75 lbs)*

Other

Warranty	*3 years*
Included Accessories	*1 ea Power Supply with US power cable, 2 ea mounting kits, 3 ea 6' SMC cables, 8 ea rubber bumper feet, 3 ea 3-pin terminal blocks, 1 ea 4-pin terminal block, 1 ea IR emitter, 1 ea RS232 cable for display connection*
Compatible TechLogix Table Inserts	*TL-SMG-HD (HDMI) TL-SMG-DP (DisplayPort) TL-SMG-VGA (VGA) TL-TI-HD (HDMI) TL-TI-DP (DisplayPort) TL-TI-VGA (VGA) TL-SMG-PT (Pass-through) TL-SMG-2B (2 Button Control) TL-SMG-4C (4 Button Control)*

Transmitter Dimensions

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TL-SM3C-HDV - Transmitter
3 Input HDMI Share-Me™ Switcher with Extension and Control

TP Out/PoC

Share-Me™ Serial
Tx   Rx   ⊥ 12v

└ RS232 ┘

Service

25 mm (0.98 in)

25 mm (0.98 in)

189 mm (7.44 in)

25 mm (0.98 in)

100 mm (3.94 in)

100 mm (3.94 in)

25 mm (0.98 in)

189 mm (7.44 in)

25 mm (0.98 in)

25 mm (0.98 in)

Share-Me™ Control Inputs

1 - HDMI In   2 - HDMI In   3 - VGA In   Audio In   C1   C2   C3   IR Learn

25 mm (0.98 in)

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Receiver Dimensions

25 mm
(0.98 in)

25 mm
(0.98 in)

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TL-SM3C-HDV - Receiver
3 Input HDMI Share-Me™ Switcher with Extension and Control

TP In/PoC

Service

25 mm
(0.98 in)

25 mm
(0.98 in)

170 mm
(6.69 in)

25 mm
(0.98 in)

100 mm
(3.94 in)

100 mm
(3.94 in)

25 mm
(0.98 in)

170 mm
(6.69 in)

25 mm
(0.98 in)

25 mm
(0.98 in)

DC 24v

LAN

Display Control

NO ⏚ NC   NO ⏚ NC   Tx ⏚ Rx

└ Relay 1 ┘ └ Relay 2 ┘ └ RS232 ┘

IR Out

Audio Out

HDMI / CEC Out

25 mm
(0.98 in)