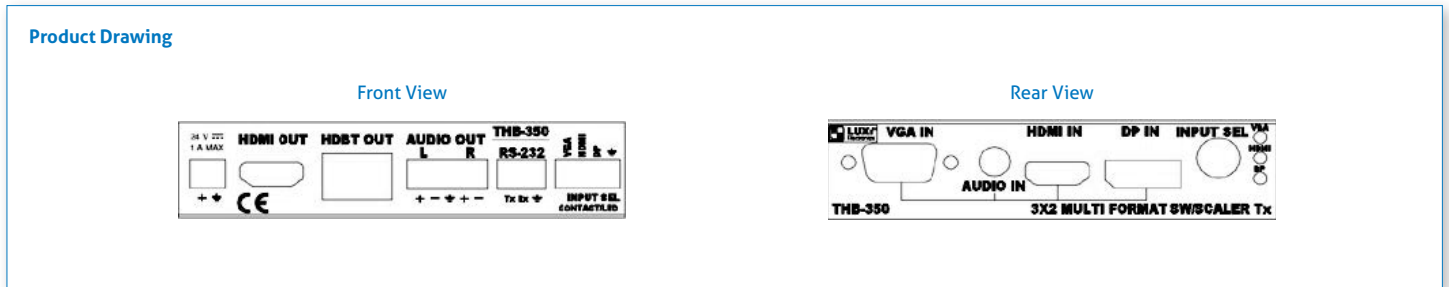


Quick Start Guide

THB-350 Scaler Transmitter

Product Specifications VGA/HDMI/DP/audio 3x2 switcher scaler Tx



Features and Benefits

- Universal interface, compatible with all source signal formats
- World's smallest high performance all purpose signal converter, scaler, switcher, splitter, mixer, HDCP compliant
- VGA, HDMI, DP input, auto switch or front panel, RS-232, contact controllable with discrete input LED indications
- Configurable display power controls via RS-232 enables fully auto operation systems without any 3rd party controller
- Independent analog audio input, can be coupled with any video input, mixed with audio de-embedded from HDMI or DP outputs to bal/unbal analog output, or embedded to HDMI
- Dual mirrored outputs, HDBT for big screen/projector and HDMI for local monitor, with or without OSD or screensaver, enable monitor sleep/wake up (energy saving)
- Unique RS-232 controlled picture zoom (out) adjustments
- HDBT output sending signals up to 70 m (235') with POC
- RS-232 selectable video resolutions of common 16:9, 16:10, 4:3 or pixel to pixel modes
- High efficiency fanless design for ultimate reliability
- Rack mountable, under-table mountable, above-projector mountable metal enclosures

Connections	
Input connectors:	1 VGA, 1 HDMI, 1 DP, 1 mini jack (audio)
Output connector:	1 HDMI, 1 HDBT, (1) 5-pin CS (audio)
Power connector:	2-pin 3.5 mm captive screw receptacle
Control connectors:	(1) 3-pin RS-232, (1) 4-pin contact

Mechanical	
Enclosure material:	steel
Enclosure size:	4.29" x 1.00" x 6.00" (10.9 x 2.5 x 15.2 cm)

Packaging
BOX SIZE: 18.9 x 15.4 x 2.8 cm
WEIGHT: Package 0.49 kg Product 0.44 kg
20-PC BOX SIZE: 31.5 x 29.5 x 24 cm
20-PC BOX WEIGHT: 10.5 kg

Other Related Products



Under desk mount,
P/N 78-002-01



HDBT Rx, P/N 74-037-01,
model RHB-350



Power supply, 100-240 V in
on US plug, 24 V out,
P/N 69-008-01

Package Content

- One piece in one color cardboard box; with captive screw
- Plugs & quick start guide
- No power supply



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Electrical	
Video signal path:	here are 3 video inputs and 2 video outputs. The analog RGB video from the VGA input goes to the scaler's analog input; the DisplayPort (DP) input signal is first converted to HDMI, then switched with the HDMI input signal, the selected signal goes to the digital input of the scaler. The scaler converts all video to LVDS, feeds to a HDMI encoder, then to 1 HDMI and 1 HDBT output.
VGA input:	0.7 Vp-p analog RGBHV, 75 ohm impedance
HDMI input:	HDMI 2.0, 4k 30 Hz, max 10.2 Gbps
DP input:	DP 1.3, 4k 30 Hz, max 10.2 Gbps
Video processing:	36-bit decoding, sampling, 225 MHz clock
Video input resolution range:	from 800x600 to 1920x1200
Scaled video output resolution presets:	720p, 1080p, 1280x800, 1920x1200, 1024x768, 1280x960, 1600x1200, pixel to pixel
HDBT output:	up to 70 m (235') with Cat6 cable; POC 24 V
Audio signal path:	There are 3 audio inputs and 3 audio outputs. The digital audio embedded in HDMI and DP inputs are selected by a HDMI switcher, then goes to the scaler. The scaler produces both SPDIF digital audio and de-embedded analog audio. The latter is mixed with the analog audio input and goes to the bal/unbal analog audio outputs, and a analog to digital converter. The HDMI encoder can select this mixed audio, or the digital audio from HDMI/DP and directly pass it thru to HDMI and HDBT outputs.
Analog audio input:	stereo on 3.5 mm mini jack, nominal level -10 dBV (316 mV), max +3.5 dBV (1.5 V), 22k ohms
Analog audio output:	stereo on 5-pin 3.5 mm captive screw connector, balanced output nominal -4 dBV (632 mV), un-balanced output nominal -10 dBV (316 mV), 60 ohms
Audio gain:	0 dB (x1) to unbal, +6 dB (x2) to bal output
Controls:	Front panel button toggle thru all 3 inputs RS-232 on 3-pin 3.5 mm captive screw, 9600/8-N-1 Contact port on 4-pin 3.5 mm captive screw, discrete pin for each input, dual function (switch to select, LED for indication)
Power consumption:	24 V DC, up to 1 A
Optional power supply:	Not included. <u>Luxi 69-008-01</u> : Auto switching 100-240 V AC input on US plug, 24 V DC 1 A max on bare wires, wall ward type, UL, PSE, CE, FCC
Mounting:	Not included. <u>Luxi under desk mount 78-002-01</u> : compatible with several Extron and Middle Atlantic mounts
Regulatory compliance:	Safety: CE, cUL, UL (power supply only) EMI/EMC: CE, FCC Class A
MTBF:	30,000 hours
Warranty:	3 years parts and labor

For local support, please contact your reseller directly.