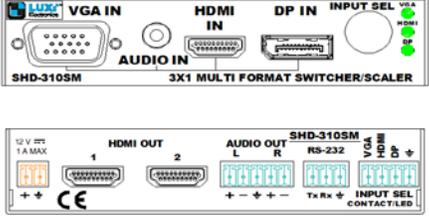


Product Specifications	Part Number: 71-003-02
VGA/HDMI/DP/audio 3x2 switcher with scaler	Model: SHD-310SM (rev 2)
Product Image	Product Drawing
	
Features and Benefits	Mechanical
<ul style="list-style-type: none"> > Universal interface, compatible with all source signal formats > World's smallest high 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 HDMI outputs, drive both big screen/projector and local monitor simultaneously, with or without OSD or screensaver, enable monitor sleep/wake up (energy saving) > Unique RS-232 controlled picture zoom (out) adjustments to compensate for common display overscan > 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 	<p>Enclosure material: steel Enclosure size: 4.29" x 1.00" x 3.00" (10.9 x 2.5 x 7.6 cm)</p>
Package	Electrical
<p>One piece in one color cardboard box; with captive screw plugs and quick start guide no power supply</p>  <p>Box size: 5.9" x 4.8" x 1.1" (15.0 x 12.2 x 2.8 cm) Weight: package, 0.63 lb (0.29kg); product, 0.49 lb (0.22kg) 30-pc box size: 12.4" x 11.6" x 9.5" (31.5 x 29.5 x 24 cm) 30-pc box weight: 21 lb (9.6 kg)</p>	<p>Video signal path: There 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 a 1x2 HDMI splitter for dual outputs. 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 HDCP compliance: HDCP 1.2</p> <p>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 dual HDMI 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)</p>
Connections	Power consumption: 12 V DC, 0.2 A
<p>Input connectors: 1 VGA, 1 HDMI, 1 DP, 1 mini jack (audio) Output connector: 2 HDMI, (1) 5-pin captive screw (audio) Power connector: 2-pin 3.5 mm captive screw receptacle Control connectors: (1) 3-pin RS-232, (1) 4-pin contact</p>	<p>Optional power supply: Not included. Luxi 69-002-01 Auto switching 100-240 V AC input on US plug, 12 V DC 1 A max on bare wires, wall ward type, UL, PSE, CE, FCC Mounting: Not included. Luxi under desk mount 78-002-01 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</p>
Other Related Products	
<p>Power supply, 100-240 V in on US plug, 12 V out, P/N 69-002-01</p>  <p>Under desk mount, P/N 78-002-01</p> 	