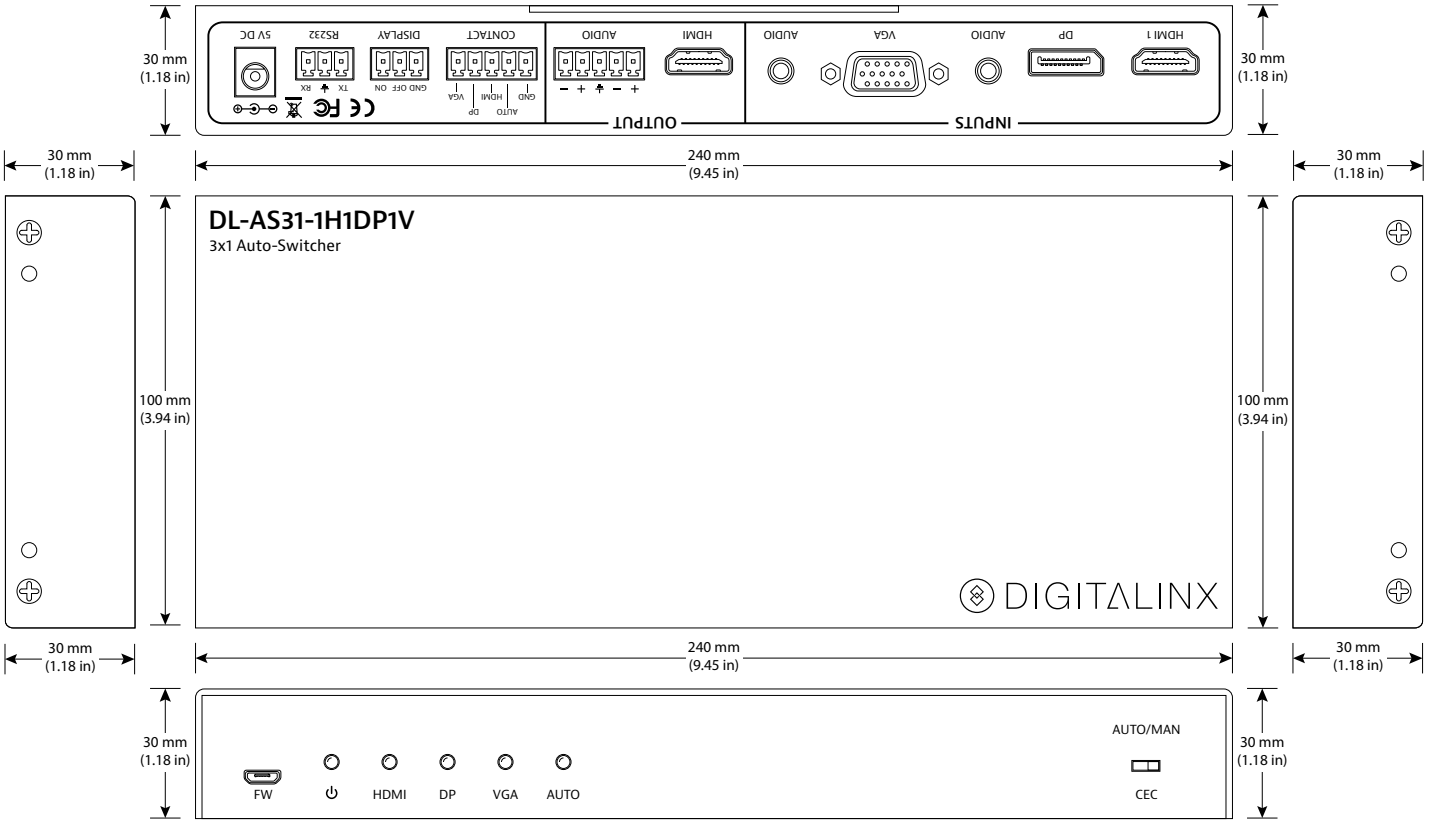
DL-AS31-1H1DP1V Technical Specifications

DigitaLinx One HDMI, One DisplayPort and One VGA to One HDMI Output Auto-Switcher

Rev 160321

The DL-AS31-1H1DP1V is a multiformat auto-switcher with one HDMI input, one DisplayPort with analog audio input, one VGA with analog audio input, one HDMI output, and one balanced analog audio output. This auto-switcher supports HDMI and DisplayPort video resolutions up to 4Kx2K at 30 Hz and multichannel audio and VGA video resolutions up to 1920x1200 at 60 Hz. In addition to passing EDID information from the display, there are multiple built-in EDID settings to simplify an installation. The DL-AS31-1H1DP1V will de-embed the digital audio from the HDMI output signal, and output it via the balanced analog audio output port.

When in auto-switch mode, the DL-AS31-1H1DP1V will switch to a signal input as soon as a new source is connected. When the active source is removed, the switcher will select the first source on the lowest numbered input. The DL-AS31-1H1DP1V may also be controlled via RS232 commands or by contact closures on the rear of the switcher.



I/O Connections	
HDMI Input	One (1) HDMI Type A Receptacle
DisplayPort Input	One (1) Full Size DisplayPort Female Receptacle
VGA Input	One (1) HD-15 Female Receptacle
Audio Input	Two (2) 3.5mm TRS Jack
HDMI Output	One (1) HDMI Type A Receptacle
Audio Output	One (1) 5-pin Removable Terminal Block
Input Select Contact Closures	One (1) 5-pin Removable Terminal Block
Manual CEC Contact Closures	One (1) 3-pin Removable Terminal Block
RS232	One (1) 3-pin Removable Terminal Block
DC 5V Power	One (1) 5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel
CEC Switch	One (1) 3mm Microswitch
Firmware	One (1) Micro-B Receptacle
Supported Audio and Video	
Maximum Video Compatibility	Deep Color 48/36/30/24 Bit at 1080p and 2160p/30
Video Compliance	HDMI1.4, HDCP1.4, CEC (Consumer Electronics Control)
HDMI and DisplayPort Video Signal Resolution	4096x2160@30Hz,3840x2160@24/25/30Hz, 1920x1080@24/25/30/50/60Hz, 1920x1080@50/60Hz, 1920x1080i@50/60Hz, 1600x900@60Hz, 1366x768Hz@60Hz, 1280x720Hz@60Hz, 1920x1200@60Hz, 1680x1050@60Hz, 1440x900@60Hz, 1360x768@60Hz, 1280x800@60Hz, 1600x1200@60Hz, 1400x1050@60Hz, 1280x1204@60Hz, 1024x768@60Hz, 800x600@60Hz, 640x480@60Hz
VGA Video Signal Resolution	1920x1080@24/25/30/50/60Hz,1920x1080@50/60Hz, 1920x1080i@50/60Hz, 1600x900@60Hz,1366x768Hz@60Hz, 1280x720Hz@60Hz, 1920x1200@60Hz, 1680x1050@60Hz, 1440x900@60Hz, 1360x768@60Hz,1280x800@60Hz, 1600x1200@60Hz, 1400x1050@60Hz, 1280x1204@60Hz, 1024x768@60Hz, 800x600@60Hz, 640x480@60Hz
HDMI Embedded Audio	PCM/Dolby Digital/DTS/DTS-HD
External Audio Signal	Stereo audio
Output Audio Signal	Balanced analog audio, compatible with unbalanced analog audio
Output Audio Signal to Noise Ratio	SNR≥85dB
Output Audio Frequency Response	20 Hz to 20 kHz
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
Maximum Passive Cable Length	5 m (16 ft)
RS232 Baud Rate	9600 baud
Chassis and Environmental	
Enclosure	Painted aluminum
Dimensions (W x H x D)	240 mm x 100mm x 30 mm (9.45 in x 3.94 in x 1.18 in)
Shipping Weight	0.85 kg (1.87 lbs.)
Operating Temperature (Environment)	0° to +40° C (+32° to +104° F)
Operating Temperature (Chassis)	31° C (88° F) (S); 38° C (100° F) (R)
Operating Humidity (Environment)	20% to 90%, Non-condensing
Storage Temperature (Environment)	-10° to +60° C (+14° to +140° F)
Storage Humidity (Environment)	20% to 90%, Non-condensing
Power, ESD, and Regulatory	
Maximum Power Consumption	5 watts
Power Supply Input Voltage	100-240V AC at 50/60 Hz
Power Supply Output Rating	DC5V at 3 A
ESD Protection	Contact discharge: ±15kV; Air discharge: ±8kV
Device Regulatory	CE, RoHS
Power Supply Regulatory	CE, RoHS, TUV, UL, SGS
Other	
Standard Warranty	2 Years
Diagnostic Indicators	Power, Source Mode, Selected Input.
Included Accessories	Installation guide, power supply with AC adapters (AU, EU, UK, and US), RS232 cable, 5-pin terminal blocks (2 ea), 3-pin terminal blocks (2 ea), rubber feet, mounting “L” brackets (2 ea), mounting screws (4 ea)

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

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