

DL-DVI Technical Specifications

DVI-D with Audio Extender Series
Rev 140512

The Digitalinx DL-DVI extenders provide a means for the transmission of non-encrypted DVI-D signals at resolutions up to 1920x1200 and 1080p, plus either S/PDIF or analog stereo audio, over Category 5e or 6 cable at great distances. The system is fully compatible with all DVI 1.0 signals and seamlessly integrates the selected audio signal into the signal path. The unique locking power connectors are used to enhance overall system security.

The DL-DVI-S transmitter provides a built-in EDID table as a standard feature. The DL-DVI-S, used in conjunction with the DL-DVI-R100 receiver, can achieve distances up to 100 meters (328 feet). Use of the DL-DVI-R250 receiver can increase distances up to 250 meters (820 feet). Achieving such long distances with a DVI-D signal at 1080p requires use of a unique analog/digital hybrid transmission system. Both receivers provide gain and equalization adjustments. The DL-DVI-R250 receiver provides additional signal processing via two user selectable DIP switches which further equalize the DVI-D Video and the audio signals.

I/O Connections (DL-DVI-S)	
DVI-D Input	One (1) Female DVI-I Receptacle
Stereo Audio Input	One (1) 3.5 mm Jack (TRS)
S/PDIF (Coaxial) Audio Input	One (1) Female RCA Receptacle
5V DC Power	One (1) Locking Coaxial Barrel (5.5mm OD; 2.6mm ID)
Twisted Pair Output	One (1) 8P8C Port (RJ45)
Audio Mode Switch	One (1) Two Position Slider Switch
I/O Connections (DL-DVI-R100/R250)	
DVI-D Output	One (1) Female DVI-I Receptacle
Stereo Audio Output	One (1) 3.5 mm Jack (TRS)
S/PDIF (Coaxial) Audio Output	One (1) Female RCA Receptacle
5V DC Power	One (1) Locking Coaxial Barrel (5.5mm OD; 2.6mm ID)
Twisted Pair Input	One (1) 8P8C Port (RJ45)
Gain and EQ Adjustments	Two (2) Rotary Potentiometers
Rough Gain Stage Adjustment (DL-DVI-R250 only)	Two Switch DIP
Supported Audio and Video	
HDTV Video Resolutions	720p (1280x720), 1080p (1920x1080)
VESA Video Resolutions	800x600, 1024x768, 1152x864, 1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1366x768, 1400x1050, 1440x900, 1600x900, 1680x1050, 1920x1200
Video Compatibility	DVI 1.0 (not HDCP compliant)
Audio Compatibility	PCM 2 channel
Maximum DVI-D and Audio Distance	5m (16 ft)
Maximum Extended Cable Distance (DL-DVI-R100)	100m (328 ft)
Maximum Extended Cable Distance (DL-DVI-R250)	250m (820 ft)
Chassis and Environmental	
Enclosure	Extruded Aluminum in Black Powdercoat
Dimensions	123mm x 125mm x 30mm (4.84 in x 4.92 in x 1.18 in)
Shipping Weight	0.7 kg (1.54 lbs)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Power, ESD, and Regulatory	
Power Supply Input	100V-240VAC / 50-60 Hz / 0.1A
Power Supply Output	5VDC / 2.6A
Power Consumption	13 watts (max)
ESD Protection	±15 kV
Extender Regulatory	FCC, CE, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS
Other	
Warranty	2 years
Diagnostic Indicators	Power LED
Included Accessories	Installation Guide, Wall Mount Power Supply, Power Supply Adapters (US, EU, UK, AU), Alignment Screwdriver

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Digitalinx specifications are based on straight-through cabling with standard-grade Cat 5e unless noted otherwise.

