



### FEATURES

- Supports cable lengths up to 500 meters (1640 ft.)
- Supports HDTV resolutions up to 1080p, and PC resolutions up to 1920x1200
- Optical fiber transmission is immune to environmental signal noise
- Low RFI / EMI profile for sensitive applications
- User-programmable EDID memory, eliminates the need for DDC connection
- Detachable optical cables greatly simplify installation and maintenance

**Superior Performance** - The DVI-7311 is a low-cost, high performance DVI Optical Extender capable of transporting high resolution DVI signals up to 500 meters (1,640 ft.). The unit consists of an optical transmitter module that converts the DVI input signals into light pulses for transmission over 4 strands of multi-mode fiber optic cable, and an optical receiver module that converts the light pulses back to a DVI signal for display on a monitor or projector. A programmable memory chip in the transmitter module provides EDID support for any display, thereby eliminating the need for copper cables. These features make the DVI-7311 the ideal solution for all display applications that require flawless DVI signal quality over very long cable runs.

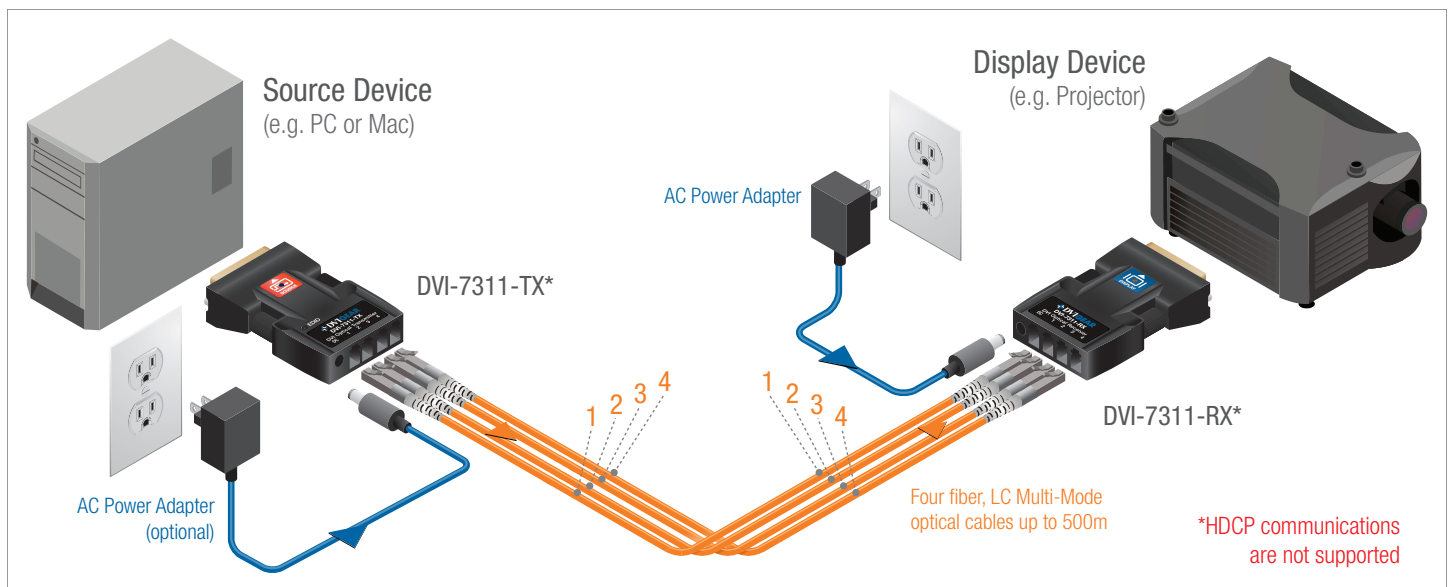
DVI-7311-TX / RX



Front View



Rear View



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### SPECIFICATIONS

Performance		
Compliance	DVI v1.0	
Maximum Pixel Clock Frequency	165 MHz	
Maximum Video Bit Rate	1.65 Gbps (single-link)	
Supported Color Depth	8-bit	
Supported HDTV Formats	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, and 2048x1080	
Supported PC Resolutions	Up to 1600x1200 and 1920x1200	
Digital Audio Support	None	
Connections		
DVI Input / DVI Output	1x 18+1 DVI-D male connector	
Optical	4x LC fiber optic connectors	
Power Inputs	1x 3.5mm jack	
Optical		
Optical Technology / Wavelengths	4x Discrete Optical Channels	
Optical Wavelength(s)	850 nm	
Optical Transmitter	Tx Module: 4x 850 nm VCSEL, Class 1 laser product	
Optical Receiver	Rx Module: 4x GaAs PIN Photo Diodes	
Optical Transmitter Output Power	-8 dBm (minimum) / -3 dBm (maximum)	
Optical Receiver Input Sensitivity	-18.5 dBm (minimum) / -3 dBm (maximum)	
Optical Link Power Budget	9.0 dB (minimum)	
Cable		
Fiber Cable Type / Max. Length	50/125µm LC Multi-Mode Fiber with 4x LC connectors / 500 meters	
DVIGear Fiber Cable	OFNP, Plenum Rated - additional data and custom lengths available on request	
Cable Jacket	OFNP, Plenum Rated, Black Metal Jacket	
Cable Outside Diameter	5.0 mm	
DDC Support		
EDID Support	An EDID memory built into the Tx module can learn and store the display's EDID info.	
HDCP Support	HDCP communications are <b>NOT</b> supported!	
Mechanical		
Construction	High-impact plastic enclosure with black satin finish	
Dimensions (L x W x H)	2.5" x 1.7" x 0.6" (64.2 mm x 42.6 mm x 15.9 mm)	
Net Weight	DVI-7311-TX: 1 oz. (28 g)      DVI-7311-RX: 1 oz. (28 g)	
Environmental		
Temperature	Operating: 32° to +158° F      (0° to +70°C)	Storage: -40° to +185° F      (-40° to +85°C)
Humidity	Operating: 5% to 80% (non-condensing)	Storage: 5% to 95% (non-condensing)
Power Requirements		
Optical Transmitter	Tx module requires at least 320 ma of DC current from pin 14 of DVI (source) connector. Optional external power supply may be used if needed.	
Optical Receiver	Must be powered using the supplied external power supply	
External AC Power Adapter	Input: 100-240VAC / 50-60Hz 0.2A      Output: 5VDC, 3.0A	
Power Consumption	DVI-7311-TX: 1.6 watts      DVI-7311-RX: 1.4 watts	
Regulatory Approvals		
Fiber Optic Extender Unit	FCC, CE, RoHS	
AC Power Adapter	FCC, CE, UL, C-UL, CEC, GS, PSE, RoHS	
Warranty		
Limited Warranty	1 Year Parts and Labor	
Model Numbers		
DVI-7311	DVI Single-Link Fiber Optic Extender, 4x LC	
DVI-7311-TX	DVI Single-Link Fiber Optic Transmitter, 4x LC	
DVI-7311-RX	DVI Single-Link Fiber Optic Receiver, 4x LC	
DVI-CUST-OPT	4x LC, Plenum-rated, Single-Link DVI Fiber Optic Cable (length must be specified)	
Accessories Included		
1x External AC Power Adapter with USA plug, 1x User Guide		
Optional Accessories		
External AC Power Adapter (with USA, Euro, UK, or Australia plugs) for DVI-7311-TX Transmitter unit		

**Note 1:** All specifications are subject to change without notice.