



Product Description:

The DVI-7320 is a high-speed fiber optic transport system capable of distributing ultra-high resolution Single-Link or Dual-Link DVI signals over cable lengths up to 500 meters (1,640 ft.) while maintaining flawless image quality. On the source side, an optical transmitter module converts DVI input signals into light pulses for transmission over 7 strands of multi-mode fiber optic cable. On the display side, an optical receiver module converts the light pulses back to a DVI signal for display on a monitor or projector. A programmable memory chip provides EDID support for any display without the need for a copper cable. The unit also provides a DDC link that supports live EDID / HDCP communications using a standard CAT5 cable. These features make the DVI-7320 the ideal solution for critical display applications that require flawless DVI signal quality over very long cable runs.

Key Features:

- Supports HDTV resolutions up to 2048x1080 pixels
- Supports PC resolutions up to 3840x2400 pixels
- Supports digital bit-rates up to 3.3 Gbps
- Optical fiber transmission is immune to environmental signal noise.
- Low RFI / EMI profile for sensitive applications
- EDID supported via direct DDC connection or by built-in EDID memory
- Transmitter unit can be powered by DVI source or by optional +5VDC external power supply.
- Receiver unit is powered by +5VDC external power supply.
- Detachable optical cables greatly simplify installation and maintenance.

Specifications:

Model Number	
DVI-7320	Dual-Link DVI Fiber Optic Extender
Connections	
DVI Input / DVI Output	29-pin female DVI connectors
Optical	7x LC type fiber optic connectors (R1, G1, B1, R2, G2, B2, Clock)
DDC	RJ-45 jack
Power	3.5 mm jack
Resolution	
PC	Supports all Single-Link DVI resolutions up to 1600x1200 and 1920x1200 Supports all Dual-Link DVI resolutions up to 3840x2400 (WQUXGA displays)
HDTV	Supports HDTV resolutions up to 1080p and 2048x1080
Bandwidth	
Pixel Rates	Supports pixel clock rates up to 330 MHz
Bit Rates	Supports digital signal bit rates up to 3.30 Gbps
Optical	
Optical Transmitter	Tx Module: VCSEL Lasers, Class 1 laser product
Optical Receiver	Rx Module: PIN Photo Diodes
Fiber Cable Type	50/125µ multi-mode optical fiber with 7x LC connectors per module
DVIGear Fiber Cable	OFNP, Plenum Rated PVC Jacket, Diameter 5.0 mm (data available upon request)
Cable Length	Real EDID Mode: Maximum 100 m / 328 ft. EDID Emulation Mode: Maximum 500 m / 1,640 ft.
DDC Support	
EDID Support	An EDID memory built into the Tx module can learn and store the display's EDID info, thereby eliminating the need for a DDC connection using copper cables.
HDCP Support	HDCP communications are supported using optional DDC link over a CAT5 cable.
Power	
Optical Transmitter	Tx module requires at least 300 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 Power Supply	Input: 100-240VAC, 50-60Hz 0.5A / Output: +5VDC @ 2.0A
Power Consumption	Maximum: 3.0 watts (for both Tx and Rx units)
Mechanical	
Construction	Rugged metal enclosure with jet black finish
Dimensions (L x W x H)	7.05" x 3.56" x 1.31" (179.1 mm x 90.3 mm x 33.3 mm)
Weight	Tx Unit: 1.02 lb. (462 g) Rx Unit: 1.02 lb. (462 g)
Environmental	
Operation	32° to 122° F / 0° to 50° C
Storage	-4° to 158° F / -20° to 70° C
Relative Humidity	10% - 80%
Compliance	
RoHS and CE compliant	
Accessories	
Included: 1x External AC Power Adapter, 1x User Guide Optional: Wall Mount Bracket (DVI-7320-WM)	