



DVI-7366-TX

HDMI 8K Fiber Optic Transmitter, 1x LC

DVI-7366-RX

HDMI 8K Fiber Optic Receiver, 1x LC

High-resolution HDMI Signal Management — The DVI-7366 is a high-performance, cost-effective, 8K Multiport Optical Extender designed to meet and exceed even the most demanding system requirements. It supports a wide array of signal types with or without HDCP content protection, provides long-distance extension over a single fiber cable, and supports ultra-high resolutions up to 8K (UHD) at 60 Hz (4:4:4).

Multiple Signals Extended over a Single Cable — This multiport optical extender supports uncompressed HDMI 8K/60p, embedded audio, bi-directional IR, RS 232 and two 10/100 Base-T Ethernet ports, using only a single fiber optic cable. It can extend these signals over cable distances of up to 1968 ft. (600 meters). For added versatility, these units provide Advanced EDID Management with four operating modes: Pass-through, Learn 1, Learn 2, and Factory Default.

The DVI-7366 supports DDC, ARC, and CEC pass-through for a complete HDMI experience. DDC ensures optimal display compatibility, utilizing EDID to enable connected devices to automatically detect the display's capabilities, ensuring optimal video and audio settings without manual configuration. ARC allows audio to travel from the display to an audio device over the HDMI connection. CEC pass-through maintains HDMI control functions across the extension link, allowing seamless operation of connected devices with fewer remotes.

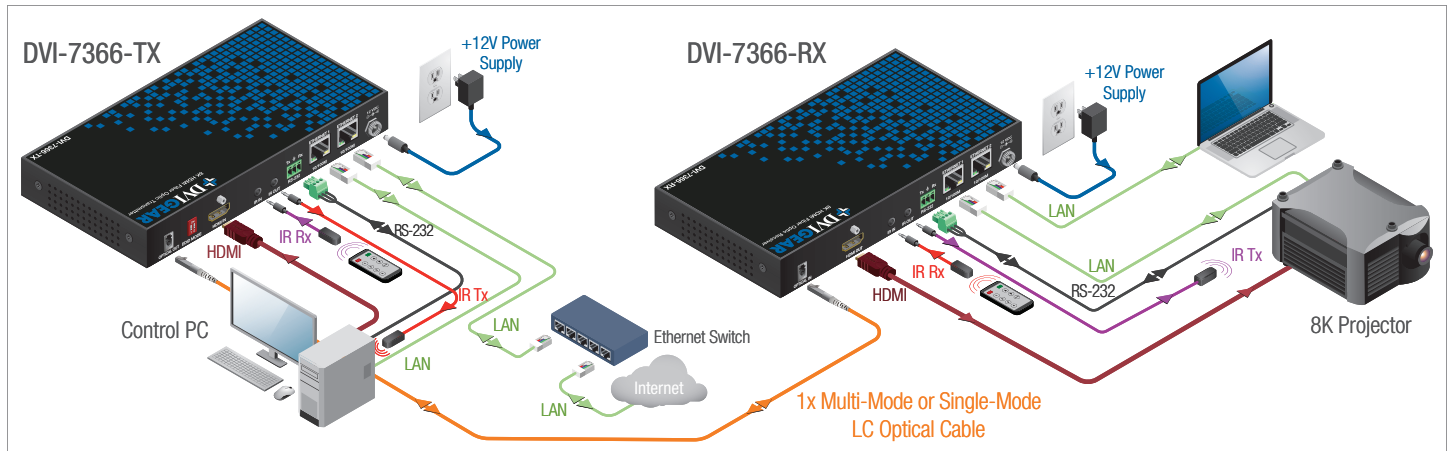
Advanced Fiber Optic Technology — Each extender set consists of an optical transmitter unit and an optical receiver unit. The transmitter converts the AV signals into light pulses for transmission over a single strand of Multi-Mode or Single-Mode fiber optic cable. The receiver converts the light pulses back to AV signals for the display, as well as other downstream devices. By using advanced fiber optic technology, without any compression, this product provides superior picture quality over greater distances than other extension methods, such as copper cables or CAT-X extenders. HDMI functionality benefits from long-distance, high resolution signal extension over this single cable.

Together, these features make the DVI-7366 the ideal, cost-effective solution for system designers and integrators who need to extend high resolution HDMI signals over long distances with flawless image quality.

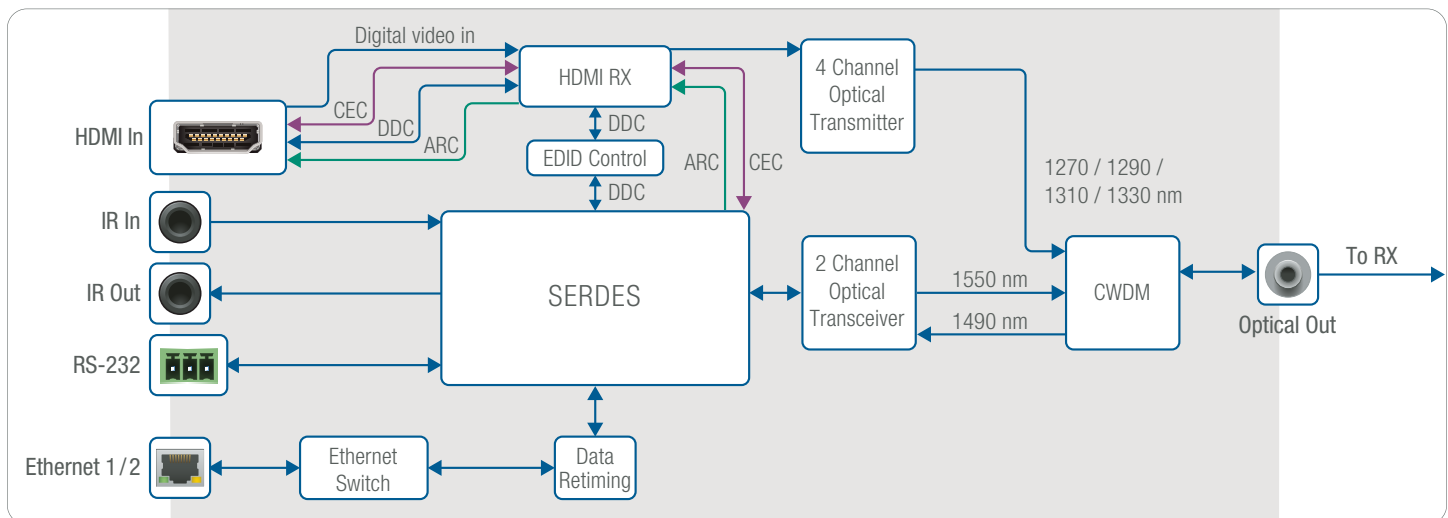
FEATURES

- Supports resolutions up to 8K/60p (4:4:4), without using compression
- Extends HDMI, Ethernet (10/100 Base-T), RS-232, and bidirectional IR over a single strand of fiber optic cable
- HDMI v2.1b, DVI v1.0, HDCP v2.3 compliant
- Supports embedded high resolution audio
- **Maximum extension distances:**
 - Single-Mode Fiber: > 1968 ft. (600 m)
 - OM3 Multi-Mode Fiber: > 820 ft. (250 m)
 - OM4 Multi-Mode Fiber: > 984 ft. (300 m)
- Four Advanced EDID Management Modes: Pass-through, Learn 1, Learn 2, and Factory Default
- Supports DDC, ARC and CEC pass-through
- Optical fiber transmission is immune to environmental signal noise
- Low RFI / EMI profile for sensitive applications
- Locking DC power connectors for added security and reliability
- Heavy-duty mounting brackets are included

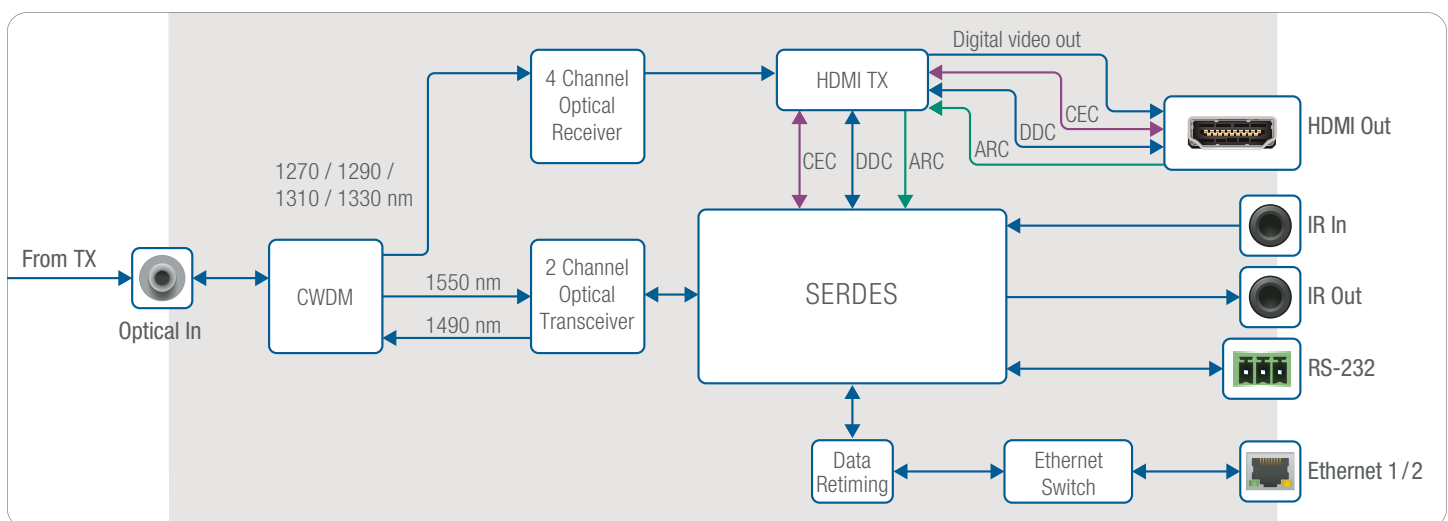
STAND-ALONE DIAGRAM



DVI-7366-TX INTERNAL BLOCK DIAGRAM



DVI-7366-RX INTERNAL BLOCK DIAGRAM





DVI-7366-TX Front View



DVI-7366-TX Rear View



DVI-7366-RX Front View



DVI-7366-RX Rear View

SPECIFICATIONS

Performance			
Standards Compliance	HDMI v2.1b, DVI v1.0, HDCP v2.3		
Maximum Video Bit Rate	12 Gbps / 48 Gbps aggregate over 4x data channels		
Supported Transmissions Modes	Supports TMDS and all Fixed Rate Link modes (FRL1–FRL6)		
Total System Jitter (I/O)	0.6 UI maximum		
Inter-Channel Skew	2 nanoseconds maximum		
Ethernet	10/100 Base-T		
ARC / eARC Support	ARC is supported. Note: eARC is not supported		
CEC Support	CEC is supported		
Supported Color Depth	Up to 12-bit per pixel		
Maximum Supported Resolutions	4K/100–120 Hz, 4:4:4 4K/144 Hz, 4:4:4 4K/144 Hz, 4:2:0 4K/200–240 Hz, 4:2:0	5K/144 Hz, 4:4:4 5K/144 Hz, 4:2:2 5K/200–240 Hz, 4:2:0	8K/24–30 Hz, 4:4:4 8K/48–60 Hz, 4:4:4 12K/24–30 Hz, 4:2:0
Digital Audio Support	Supports embedded high resolution audio up to 32-channel uncompressed audio and 8-channel, 192 kHz, 24-bit uncompressed audio		

HDMI 8K Fiber Optic Extender, 1x LC

SPECIFICATIONS (CONTINUED)

Connections	
HDMI Input/HDMI Output	1 ea. 19-pin Female HDMI connector
Optical	1 ea. LC fiber optic connector
Ethernet	2 ea. RJ-45 female connector
RS-232	1 ea. 3-pin Phoenix connector
IR Input/IR Output	IR IN: 1 ea. 3.5 mm stereo mini-jack IR OUT: 1 ea. 3.5 mm mini-jack
Power	1 ea. Screw-Locking 2.1 mm x 5.5 mm female connector
Control	
TX Unit	Front Panel: EDID Learn button, LEDs for EDID, Power, Optical Link, HPD and Ethernet Back Panel: EDID Mode selection via 2x DIP switches
RX Unit	LEDs for Power, Optical Link, HPD and Ethernet
Optical	
Optical Technology	CWDM (Coarse Wavelength Division Multiplexing) using 6 optical wavelengths
Laser Diodes	1270 / 1290 / 1310 / 1330 nm 12.0 Gbps CWDM DFB Lasers 1490 nm / 1550 nm 2.5 Gbps CWDM DFB Lasers
Photo Diodes	1100–1620 nm PIN Photo Detectors
WDM Filter	Integrated 1270 nm / 1290 nm / 1310 nm / 1330 nm / 1490 nm / 1550 nm filter
Optical Wavelengths/Actual Data Rates	TMDS Signals: 1270 nm / 1290 nm / 1310 nm / 1330 nm = 12.0 Gbps DDC, IR, RS-232, Ethernet Signals: 1490 nm / 1550 nm = 1.25 Gbps
Optical Link Power Budget	8.0 dB (minimum)
Cable	
Maximum Cable Length (typical)	9/125μ Single-Mode Fiber: > 1968 ft. (> 600 meters) 50/125μ OM3 Multi-Mode Fiber: > 820 ft. (> 250 meters) 50/125μ OM4 Multi-Mode Fiber: > 984 ft. (> 300 meters)
DVIGear Fiber Cable	OFNP, Plenum rated. Additional data and custom lengths available on request
Cable Jacket	OFNP, Plenum-rated, Black PVC Jacket
Cable Outside Diameter	0.2" (4.4 mm)
DDC Support	
EDID Management/Modes	EDID Pass-through (transparent) EDID Learn 1 / Learn 2 (cached) Factory Default EDID (1080p 2-Ch audio)
HDCP Support	Supports HDMI signals with or without HDCP encryption
Mechanical	
Case Dimensions (H x W x D)	Without Brackets: 1.0" x 7.5" x 3.9" (26.0 mm x 190.0 mm x 99.5 mm) Width with Brackets: 8.5" (215.5 mm)
Weight	TX Unit: 568 g RX Unit: 563 g
Construction	High-impact metal enclosure with jet black finish
Mounting Options	Mounting Brackets are included

SPECIFICATIONS (CONTINUED)

Environmental	
Operating Temperature	14° to +158°F (-10° to +70°C)
Storage Temperature	-40° to +185°F (-40° to +85°C)
Operating Humidity	5% to 80% (non-condensing)
Storage Humidity	5% to 95% (non-condensing)
Power Requirements	
Optical Transmitter / Receiver	Both TX and RX units must be powered by the supplied external power adapters
External AC Power Adapters	Model No: DVI-72165-PS Input: 100–240 VAC / 50–60 Hz 0.8 A Output: 12 VDC, 2.0 A
Maximum Power Consumption	DVI-7366-TX: 550 mA, 6.6 W DVI-7366-RX: 500 mA, 6.0 W
Regulatory Approvals	
Fiber Optic Extender Unit	FCC Class B, CE, RoHS
Laser	US-FDA CDRH Class 1
External AC Power Adapters	FCC, CE, UL, C-UL, BSMI, CB, CCC, LVD, LPS, PSE, RCM, RoHS, WEEE
Warranty	
Limited Warranty	3 Years Parts and Labor
Model Numbers⁽¹⁾	
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DVI-CUST-OPT	Custom Fiber Optic Cable, Plenum rated Specify: Length, Fiber Type (MMF, SMF) and Optical Connectors (LC)
Accessories Included⁽¹⁾	
1x External AC Power Adapter (DVI-72165-PS) with USA plug 1x User Guide 1x 3-Pin Phoenix Connector (Phoenix p.n. 1840379) 1x IR Transmitter (DVI-7360-IR-TX) (ships with DVI-7366-TX) 1x IR Receiver (DVI-7361-IR-RX) (ships with DVI-7366-RX) 2x Mounting Brackets with Screws	
Optional Accessories	
External AC Power Adapter (p.n. DVI-72165-PS) with Euro, UK, or Australia plugs +12 VDC Power Distribution Unit (p.n. DVI-7520-PDU) Custom Optical Cables (contact DVIgear for details)	

Note 1: The Transmitter and Receiver units are sold separately. The accessories shown here are included per unit.

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