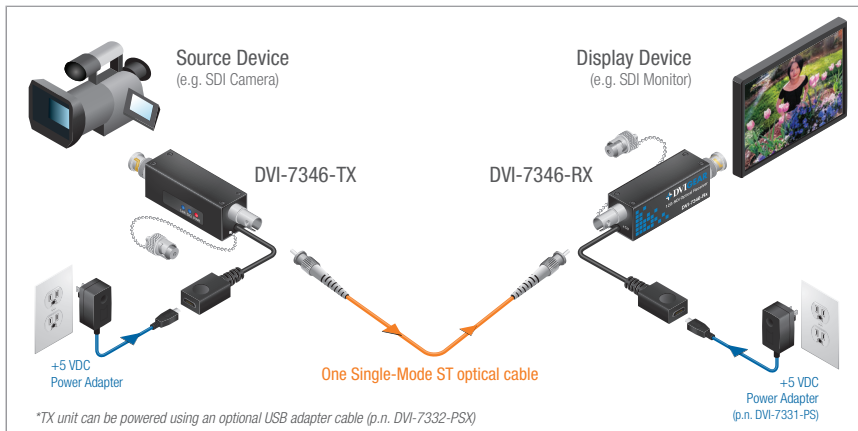




High Performance — The DVI-7346 is an ultra-compact, high performance fiber optic extender that supports SDI, HD-SDI, 3G-SDI and 12G-SDI signal extension over a single strand of Single-Mode optical fiber at distances up to 6.2 miles (~ 10 km). The extender set consists of an optical transmitter module that converts the SDI signals into light pulses for transmission over an optical fiber cable. An optical receiver module converts the light pulses back to an SDI signal for downstream processing or display on a monitor.

Superior Design — The transmitter includes an SDI signal EQ, a Laser driver and a laser diode module that uses a single optical wavelength of 1310nm. The receiver includes an SDI copper cable driver, a photo diode, a transimpedance amplifier (TIA), as well as a limiting amplifier. Both Tx and Rx use low-profile, metal cases equipped with rugged locking 75-ohm BNC SDI connectors. The locking ST fiber connectors are supplied with twist-locking metal covers to prevent dust buildup inside the fiber optic connectors. These features make the DVI-7346 the perfect solution for extension of SDI, HD-SDI, 3G-SDI, and 12G-SDI signals over extreme distances in even the most demanding broadcast, studio, and live environments.

STAND-ALONE DIAGRAM



FEATURES

- Supports:
 - SMPTE 259M (SD-SDI)
 - SMPTE 344M (ED-SDI)
 - SMPTE 292M (HD-SDI)
 - SMPTE 424M (3G-SDI)
 - SMPTE ST 2081 (6G-SDI)
 - SMPTE ST 2082 (12G-SDI)
- Supports data rates up to 11.88 Gbps
- Supports Single-Mode optical fiber distances up to 6.2 miles (~ 10 km)
- Extended length 25 miles (~ 40 km) option available
- Utilizes a single optical cable and a single optical wavelength
- Ultra-compact, rugged metal enclosure
- Locking BNC SDI connectors and locking ST optical connectors with metal dust covers
- Wide operational temperature range: -40° to +185°F (-40° to +85°C)
- Low RFI / EMI profile for sensitive applications
- Optical fiber transmission is immune to environmental signal noise

DVI-7346-TX / RX



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12G-SDI Fiber Optic Extender, 1x ST

SPECIFICATIONS

Performance			
Compliance	SMPTE 259M (SD-SDI); SMPTE 424M (3G-SDI);	SMPTE 344M (ED-SDI); SMPTE ST 2081 (6G-SDI);	SMPTE 292M (HD-SDI); SMPTE ST 2082 (12G-SDI)
Maximum Video Bit Rate	11.88 Gbps (12G-SDI)		
Supported Color Depth	12-bit		
Input Impedance	75 ohms		
Signal Level	800mVpp +/- 50mV		
Supported Video Formats	480i, 480p, 576i, 576p, 720/30p, 720/60p, 1080i, 1080/30p, 1080/60p, 1080/120p, 2160/30p, 2160/60p		
Digital Audio Support	HD-SDI = 16 Channels of embedded 48 kHz, 24-bit audio channels 3G-SDI = 32 Channels of embedded 48 kHz, 24-bit audio channels 12G-SDI = 64 Channels of embedded 48 kHz, 24-bit audio channels		
Connections / Indicators			
SDI Input / SDI Output	1x BNC Coaxial Male Connector		
Optical Input / SDI Output	1x ST optical connector with detachable dust cover		
Power Inputs	1x 6-inch pigtail with Female USB Micro-B connector		
Optical			
Optical Technology	1x Discrete Optical Channel		
Optical Data Rates	up to 11.88 Gbps		
Optical Transmitter	Tx Module: 1310nm DFB Laser, Class 1 Laser Product		
Optical Receiver	Rx Module: 1x GaAs PIN Photo Diode		
Optical Transmitter Output Power	-4 dBm (minimum) / 0 dBm (maximum)		
Optical Transmitter Extinction Ratio	>5.0 dB		
Optical Receiver Input Sensitivity	-14.5 dBm (minimum) / 0 dBm (maximum)		
Optical Link Power Budget	10 dB (minimum)		
Cable			
Fiber Cable Type / Max. Length	9/125μ Single-Mode Fiber with 1x ST connector / 6.2 miles (10 km) ⁽¹⁾		
DVIGear Fiber Cable	OFNP, Plenum-rated, Indoor/Outdoor-rated, Black PVC Jacket		
Cable Outside Diameter	0.12" – .2" (3.0 – 5.0 mm)		
Mechanical			
Construction	High-impact metal enclosure with black finish		
Case Dimensions (L x W x H)	3.2" x 0.7" x 0.8" (82.1 mm x 16.9 mm x 19.1 mm)		
Net Weight	DVI-7346-TX: 1.5 oz. (42 g) / DVI-7346-RX: 1.5 oz. (42 g)		
Environmental			
Operating / Storage Temperature	-40° to +185°F (-40° to +85°C)		
Operating / Storage Humidity	Operating: 5% to 80% (non-condensing); Storage: 5% to 95% (non-condensing)		
Power Requirements			
Optical Transmitter / Receiver	The Tx and Rx units can be powered from a functioning USB port using a USB adapter cable, or by the supplied external power adapters		
External AC Power Adapter	Input: 100-240VAC / 50-60Hz 0.2A Output: 5VDC, 2.0A		
Maximum Power Consumption	DVI-7346-TX: 200mA (1.0 watt) DVI-7346-RX: 200mA (1.0 watt)		
Regulatory Approvals			
Fiber Optic Extender Unit	FCC, CE, RoHS		
AC Power Adapter	FCC, CE, UL, C-UL, CEC, GS, PSE, RoHS		
Warranty			
Limited Warranty	3 Years Parts and Labor		
Model Numbers			
DVI-7346	12G-SDI Fiber Optic Extender, 1x ST		
DVI-7346-TX	12G-SDI Fiber Optic Transmitter, 1x ST		
DVI-7346-RX	12G-SDI Fiber Optic Receiver, 1x ST		
DVI-CUST-OPT	9/125μ Single-Mode Optical Fiber Cable, Plenum-rated, 1x ST (specify length)		
Accessories			
Included: 2x External AC Power Adapters (p.n. DVI-7331-PS) with USA plug; 1x Quick Start Guide			
Optional: External AC Power Adapter (p.n. DVI-7331-PS) with Euro, UK, or Australia plugs; USB Type A Male to USB Micro-B Male Adapter Cable (p.n. DVI-7332-PSX); +5 VDC Power Distribution Unit (p.n. DVI-7525-PDU); Custom Optical Cables (contact DVIGear for details)			

Note 1: Extended range (40 km) version available on request.

All specifications are subject to change without notice.