

VX Series Dual-Link DVI

Supporting Dual-Link DVI Resolutions up to 2560 x 1600 @ 60 Hz



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Features

- Uncompressed Dual-Link DVI Signals (up to 2560 x 1600 @ 60 Hz)
- Distances up to 100m (with DDC2B - over CAT5e), 2 km utilizing the Virtual DDC feature
- Singlemode or multi-mode fiber optic cable (2 fibers - Single-Link, 4 fibers - Dual-Link DVI)
- No frame dropping or compression
- Auto-EDID self programming feature
- Plug & Play - No software to install
- Immunity to EMI & RFI interference

Applications

- Power Mac G5 with graphic cards supporting Dual Link DVI and 30" Cinema Display
- Medical, military, aerospace, factory, and traffic control integrated digital display systems
- Digital TFT-LCD and plasma flat panel displays and projectors for conference room, auditorium, airports, stadium and kiosk systems.

Optical Extension of Dual-Link DVI

The VX Series fiber optic Dual-Link DVI system (VX-DVI-DL) complements the VX product family, allowing Dual-Link DVI to be extended farther than copper cables will allow. With distances up to 2 km, the VX-DVI-DL has the capabilities for system integrators to design much more flexible signage solutions for customers.

Now more than ever the need to have optical cables move signals both short and long distances is critical for many installations and applications. With the cost for installations and materials equal to traditional copper cables, many companies are choosing to move to fiber because of its cost-parity, the security benefits, immunity to EMI & RFI, and light-weight nature. Installing 20 fiber strands is much easier than 20 heavy copper cables!

The VX-DVI-DL is a transmitter/receiver pair. Each unit has female DVI-D connectors. Be careful when choosing DVI cables as DVI-D connectors will only work with certain DVI cables. The fiber optic cable (not supplied) consists of four separate fibers utilizing standard LC optical cables.

The VX product family is all about saving you time during the install. It is our goal to provide easy to install hardware which is why this unit features a self-programming EDID! Because the units will program the end display's EDID information automatically, there is no need to calibrate and test equipment prior to installation!

System Design

The VX-DVI-DL transmitting device is installed near the remote computer and the VX-DVI-DL Receiver is located near the high-resolution display or projector. The system is controlled through the connection of a 4 pair fiber cable with LC connections. Once the system is connected through the fiber it is ready to display up to 2560 x 1600 @ 60 Hz graphics.

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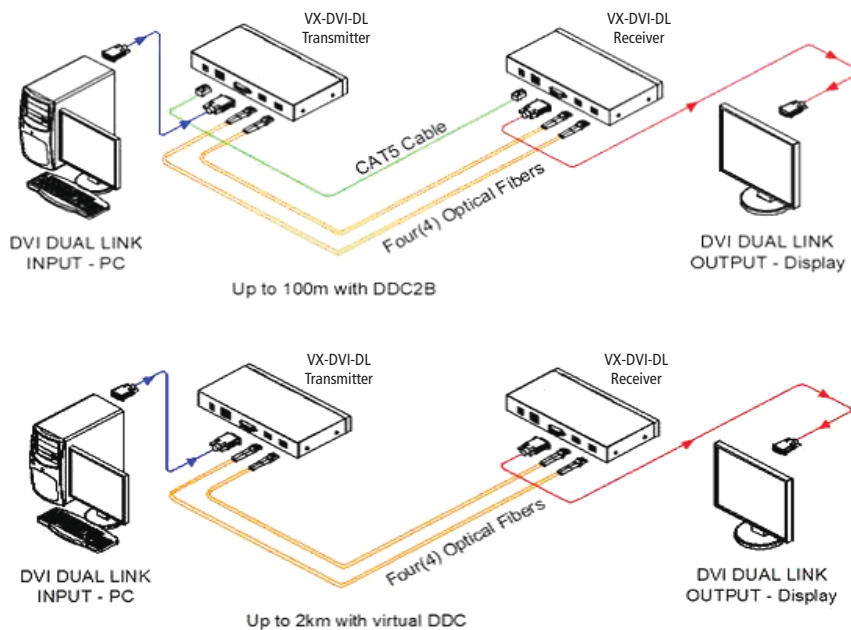
Ordering Information

Transmitter	Receiver
VX-1DVI-DL/XMT-LC	VX-1DVI-DL/RCV-LC

Optical Specifications

Transmitter (XMT) Specification	Minimum	Typical	Maximum	Units
Optical Wavelength		1310/1550		nm
Optical Output Power	-10		0	dBm
Receiver (RCV) Specification	Minimum	Typical	Maximum	Units
Receiver Sensitivity	-17		0	dBm
Optical Budget		10.5		dB
Shared Specifications	Minimum	Typical	Maximum	Units
Fiber Type		Multimode / Singlemode		
Optical Connector		Single Link: (1) LC - 2 Fibers Dual Link: (2) LC - 4 Fibers		

Connection Diagram



Video

Specifications	Values
Standards	VESA Video Resolutions Auto-EDID Display Information
Graphic Resolution	2560 x 1600 @ 60 Hz (Dual Link)
Connector	DVI-D
Signal	Digital TMDS (DVI 1.0 Compliant) Digital RGB
Compliance	DDC2B for EDID (over UTP 100m) Auto EDID

General

Specifications	Values
Dimensions (L x W x H)	4.48" x 8.64" x 1.24" (112 x 216 x 31mm)
Weight (Tx/Rx)	.84 lbs (0.38 kg)
Operating Temperature	0° to +50°C
Storage Temperature	-10°C to +85°C
Humidity	5 to 85% non-condensing
Input Voltage	24 VDC
Power Consumption	Tx (7.2 Watts), Rx (10 Watts)
Warranty	1 year

Compliance

