



Video

Audio

Data

Optical DVI Extension System

The DVI-150 is a unique fiber optic cable system that extends your digital flat panel monitor up to 500 meters (1640 feet) away from host based on DVI standard. The system utilizes 4 fibers and is available with or without embedded cable.

It is ideal for any high-resolution or high-speed optical transmission, providing maximum flexibility and extended distances.

System Design

Fully compatible with DVI standard by DDWG and uses a standard a 24-pin DVI plug and an LC connector. External power supply is optional.

RGB and Clock signals are transmitted by optical fiber. Optical Fiber-only system without DDC function (pseudo DDC signal can be transmitted for EDID information).

The miniature 865nm VCSEL transmitter driver is embedded in a mini case. The pin diode is in a similar receiver mini case. It is designed for multimode 865nm short distance. 33 feet, 66, 106, 166, 330, 660 and up to 1050 feet distances are available at various price points.



Transmitter



Receiver

Features

- Ultra-high resolution, up to 1600 x 1200 without repeaters (UXGA) up to 1640 ft
- SXGA resolution of 1280 x 1024 up to 2,300 ft
- Multimode optical fiber cabling
- 1.6Gbps (single link) Frequency Bandwidth
- No EMI or RFI and no ground loops
- Cable-finishing for conduits less than 1/2" in diameter

865	1310	1550	Type	Mode	Wavelength Suffix	Fiber Type	Output Power	Receiver Sensitivity	Optical Loss Budget	Range*	Conn Type
•			VCSEL	MM	L0	50/125μ	-16 dBm	-20 dBm	4 dB	.5 km	DVI-D & LC

* Chromatic dispersion and additional losses should be taken into account.

Video

Video Protocol DVI-D Full DDC2B compliant
 Connector Type DVI-D 24-pin male

General

Dimensions & Weight 1.53" (39mm) W X 2.08" (53mm) L X 0.60" (15.4mm) H
 Supply voltage + 5.0 V DC
 Operating temperature 0° C to 50° C
 Humidity 5% to 95%
 Optical cable 4 Multi-Mode 50 or 62.5 micron cables (available, not supplied)
 Total Extension Reach to 500 meters (1640 feet)
 DC Adapter One external AC/DC adapter for receiver module, universal input 85-265 V_{AC}.(supplied)

Optiva™ Configurable Communication Platform
Network Management
SDI & HD-SDI
Composite Video, Audio & Data
RGB/VGA/DVI
Audio/FSK/Intercom
Data (Ethernet/Serial/USB)
CATV/RF & L-Band
Optical Switching, Routing & Redundancy
Passive Multiplexing Solutions
Enclosures, Racks & Frames
Power Supplies & Accessories



Sample Configuration

