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Video

Audio

Data

Digital Visual Interface Transmission over One Fiber up to 1000 Meters

The DVI-1000 system extends to 1000 meters (3280 feet) the distance permitted for the placement of a digital monitor or projector away from the controlling computer without loss of resolution. Traditional copper cables are limited to 3 meters (9.84 feet). Each DVI-1000 system consists of a transmitter and a receiver connected by a single multi-mode fiber.

System Design

The DVI-1000 transmitter and receiver units come as compact stand alone systems, which can be easily mounted on any surface, wall or rack.



Features

- Supports video resolutions up to 2048x1536 in a single link
- Support of the DVI-D interface
- Extends digital video signals up to 1000 meters (3280 feet)
- DDC2B compliant
- Transparent operation and functionality—no user interaction required
- Signal transmission via one fiber optic cable — no RF interference
- Uses single-strand multi-mode fiber, 50 or 62.5 micron, with ST-type connectors
- Safe design provides laser shut-down (within 50 milliseconds) in the event the fiber is disrupted

865	1310	1550	Type	Mode	Wavelength Suffix	Fiber Type	Output Power	Receiver Sensitivity	Optical Loss Budget	Range*	Conn Type
•			VCSEL	MM	LO	50/125μ	-10 dBm	-14 dBm	4 dB	1 km	ST
•						62.5/125μ	-10 dBm	-14 dBm	4 dB	0.5 km	ST

* 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 5.5" (139.7mm) L x 1.25" (31.75mm) W x 4.5" (114.3mm) H;
 16 oz.
 Operating temperature 0° C to 50° C (32 to 122 ° F)
 Humidity 5% to 95%, non-condensing
 Electrical cable to display 2m (6.6 feet) DVI-D male-to-male cable
 Status Monitoring Two LED indicators on each DVI module
 Loss of signal [LOS] (red, ON when signal is disrupted)
 POWER (green, ON when power is supplied)
 Operating voltage +12 VDC @ 200 mA or 9-24 VAC @ 5W

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

