



Video

Audio

Data

Optical DVI Extension System

The DVI-120 is a unique fiber optic cable system (with a built-in transmitter and receiver and pre-connected ends) that extends your digital flat panel monitor up to 300 meters (984 feet) away from host based on DVI standard (without DDC signal). The system utilizes 4 fibers embedded within a .250 inch diameter 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. Powered by the computer.

RGB and Clock signals are transmitted by optical fiber. The display Data connection with DDC signal and 5V power line are transmitted by copper line up to 150 meters. Optical Fiber-only system without DDC function is transmitted up to 300 meters (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.



Features

- Ultra-high resolution, up to 1600 x 1200 without repeaters (UXGA) up to 984 ft without DDC and 495 ft with DDC.
- Multimode optical Built-in fiber cabling
- 1.65Gbps (single link) Frequency Bandwidth
- No EMI or RFI and no ground loops

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

* 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 Minimum power requirements from the computer +5V DC, 0.6A
 Operating temperature 0° C to 50° C
 Humidity 5% to 95%
 Optical Cable Built-in cable supplied with 4 strands of Multi-Mode Fiber embedded

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

10 YEAR WARRANTY
ISO 9001:2000 CERTIFIED

CE
FCC PART 15 COMPLIANT
 MADE IN THE USA

Sample Configuration

