

DVI Extender via 4 fiber channel, LC Duplex Connector, Extends DVI connection up to 500 meters

DVI (Digital Visual Interface) recently becomes a popular interface between monitor and PC. Electrical Signal limits the transmission length and quality. Teq AV/IT's DVI Extender helps DVI to transmit far away via Optical Fiber.



Requirements

- DVI PC or DVI signal source (Transmitter)
- DVI Monitor or Projector (Receiver)
- 100~240VAC 50~60Hz 0.2A

Feature

- Long distance image transmission
- High resolution and image quality
- No RF Interference by optical fiber
- Class 1 laser product complies with EN 60825-1
- CE and FCC approved
- DVI-D single link

Application

- Remote monitor for traffic, industrial, military control
- LCD, Projector, Plasma display connection
- Large video wall system
- Multi monitor for Advertising

Resolution and Distance Reference

RESOLUTION MODE	RESOLUTION	MAXIMUM DISTANCE	NOTE
WUXGA	1920x1200 (16:10)	300m (62.5/125) / 500m (50/125)	
UXGA	1600x1200 (4:3)	300m (62.5/125) / 500m (50/125)	~1.65Gbps
TV 1080p	1920x1080p (16:9)	300m (62.5/125) / 500m (50/125)	
SXGA	1280x1024 (5:4)	400m (62.5/125) / 600m (50/125)	~1.25Gbps
XGA	1024x768 (4:3)	500m (62.5/125) / 700m (50/125)	
TV 1080i	1920x1080i (16:9)	500m (62.5/125) / 700m (50/125)	~800Mbps
TV 720p	1280x720p	500m (62.5/125) / 700m (50/125)	
SVGA	800x600 (4:3)	500m (62.5/125) / 700m (50/125)	

Pseudo EDID support

There is virtual EDID data structure in TX module. This provides pseudo monitor information to the host. Then host can work at different modes by reading this data. It supports all standard modes such as VGA, SVGA, XGA, SXGA and UXGA...etc.

Specification

Parameter	Specification	Note
Max length	500M @ XGA 700M@XGA	62.5/125MMF 4-LC 50/125MMF 4-LC
Max resolution	1600 X 1200(4:3) 1920 X 1080p(16:9) 1920 X 1200(16:10)	Single link
Max DVI bandwidth	1.65 Gbps per channel	
EDID support	Pseudo DDC	Customers optional
HDCP compliant	No	
Operating voltage	DC 5V	
Supply current	180mA±30 280mA±30	TX Module RX Module
Optical property	4 Channels 850nm @-6dBm	=/-3dBm
Operating Temperature	-10Cto 50C	
Storage Temperature	-20Cto 75C	
Dimension	TX unit: 90x40x19.6 RX unit: 90x40x19.6	L x W x H(mm)
Weight	TX unit: 90g; RX unit: 65g	

Application Note

