

Optical DVI Extender

- Extends DVI connection up to 500 meters (700m with 50/125 μ fiber)
- Long distance image transmission
- High resolution and image quality
- No RF interference
- Class 1 laser product complies with EN 60825-1
- DVI-D (Digital) single link
- CE and FCC approved



Description

DVI (Digital Visual Interface) recently becomes a popular interface for the transmission between monitor and PC. Electrical signals are limited in transmission length and quality.

The DVI extender enables to transmit the signals over longer distances via optical fiber and can be used for any kind of monitor application. It does not matter

whether remote controlled for traffic, as large video system or as multi-monitor for advertising. Both, a transmitter and a receiver are required to extend a DVI connection.

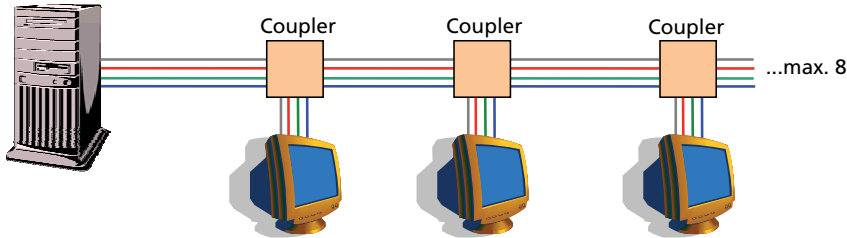
Requirements

The transmitter should be provided with DVI PC or DVI signal sources, and the receiver should be connected with DVI monitors or projectors.

Pseudo EDID support

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

DVI Extender



DVI Extender application: Multi-monitor.

Applications

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

Technical Specifications

Type

DVI Extender via 4 fiber channels with LC Duplex connector extends DVI connection up to 700m

Max length

500m @ XGA (62.5/125 MMF 4-LC)
700m @ XGA (50/125 MMF 4-LC)

Max resolution

1920 x 1200 (Single link)

Max DVI bandwidth

1.65 Gbps per channel

EDID support

Pseudo DDC (Customers optional)

HDCP compliant

No

Operating voltage

5VDC

Supply current

180mA±30 TX module
280mA±30 RX module

Optical property

4 channels 850nm @ -6dBm (VCSEL)

Operating Temperature

-0°C to 50°C

Storage Temperature

-20°C to 75°C

Dimension

TX and RX unit:
90 x 40 x 19,5 L x W x H (mm)

Weight

TX unit: 65g ; RX unit: 65g

Adaptor Specification

Input: 100~240VAC (0.2A 50~60Hz)
Output: DC 5V (1.0 A)
DC Jack: Inside 5V / Outside ground

Resolution and

Distance Reference

UXGA (1600 x 1200)
max. distance 300m (62.5/125) /
500m (50/125) 1.65Gbps

SXGA (1280 x 1024)
max. distance 400m (62.5/125) /
600m (50/125) 1.25Gbps

XGA (1024 x 768)
max. distance 500m (62.5/125) /
700m (50/125)

SVGA (800 x 600)
max. distance 500m (62.5/125) /
700m (50/125)

VGA(640 x 480)
max. distance 500m (62.5/125) /
700m (50/125) 250Mbps

Safety Regulation

CE and FCC approved

Ordering Information

Art.-No.	Description	Connectors
MS550010	DVI Extender, Transmitter, max. 500m, Multimode 850nm, external power supply	1x DVI, 2x Duplex LC
MS550011	DVI Extender, Receiver, max. 500m, Multimode 850nm, external power supply	1x DVI, 2x Duplex LC

Further products on request.

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