

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



### Description

**DVI** (Digital Visual Interface) recently becomes an popular interface between monitor and PC. Electrical signal limits the transmission length and quality. ACE DVI extender helps DVI to transmit far away via optical fiber.

### Features

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

### Application

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

### Ordering information

Part Number	
DVIE001-01	US Plug for AC adaptor
DVIE001-02	EU Plug for AC adaptor
DVIE001-03	UK Plug for AC adaptor
DVIE001-05	JP Plug for AC adaptor

\* This product does not include optical fiber

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## Specification

PARAMETER	SPECIFICATION	NOTE
Max length	500M @ XGA	62.5/125 MMF 4-LC
	700M @ XGA	50/125 MMF 4-LC
Max resolution	1600 X 1200 (4:3)	
	1920 X 1080p (16:9)	
	1920 X 1200 (16:10)	
Max DVI bandwidth	1.65 Gbps per channel	Customers optinal
EDID support	Pseudo DDC	
HDCP compliant	No	
Operating voltage	DC 5V	
Supply current	180mA ± 30	TX module
	280mA ± 30	RX module
Optical property	4 channels 850nm @ -6dBm	
Operating Temperature	-10° C to 50° C	
Storage Temperature	-20° C to 75° C	
Dimension	TX unit : 90 x 40 x 19.6	L x W x H (mm)
	RX unit : 90 x 40 x 19.6	
Weight	TX unit : 65g ; RX unit : 65g	

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### Adaptor Specification

PARAMETER	SPECIFICATION	NOTE
Input	100~240 VAC	0.2A 50~60Hz
Output	DC 5V	1.0A
DC Jack	Inside 5V / Outside ground	

### Resolution and Distance Reference

Resolution Mode	Resolution	Maximum Distance	NOTE
WUXGA	1920 x 1200 (16:10)	300m (62.5/125) / 500m (50/125)	
UXGA	1600 x 1200 (4:3)	300m (62.5/125) / 500m (50/125)	~1.65Gbps
TV 1080p	1920 x 1080p (16:9)	300m (62.5/125) / 500m (50/125)	
SXGA	1280 x 1024 (5:4)	400m (62.5/125) / 600m (50/125)	~1.25Gbps
XGA	1024 x 768 (4:3)	500m (62.5/125) / 700m (50/125)	
TV 1080i	1920 x 1080i (16:9)	500m (62.5/125) / 700m (50/125)	~800Mbps
TV 720p	1280 x 720p (16:9)	500m (62.5/125) / 700m (50/125)	
SVGA	800 x 600 (4:3)	500m (62.5/125) / 700m (50/125)	

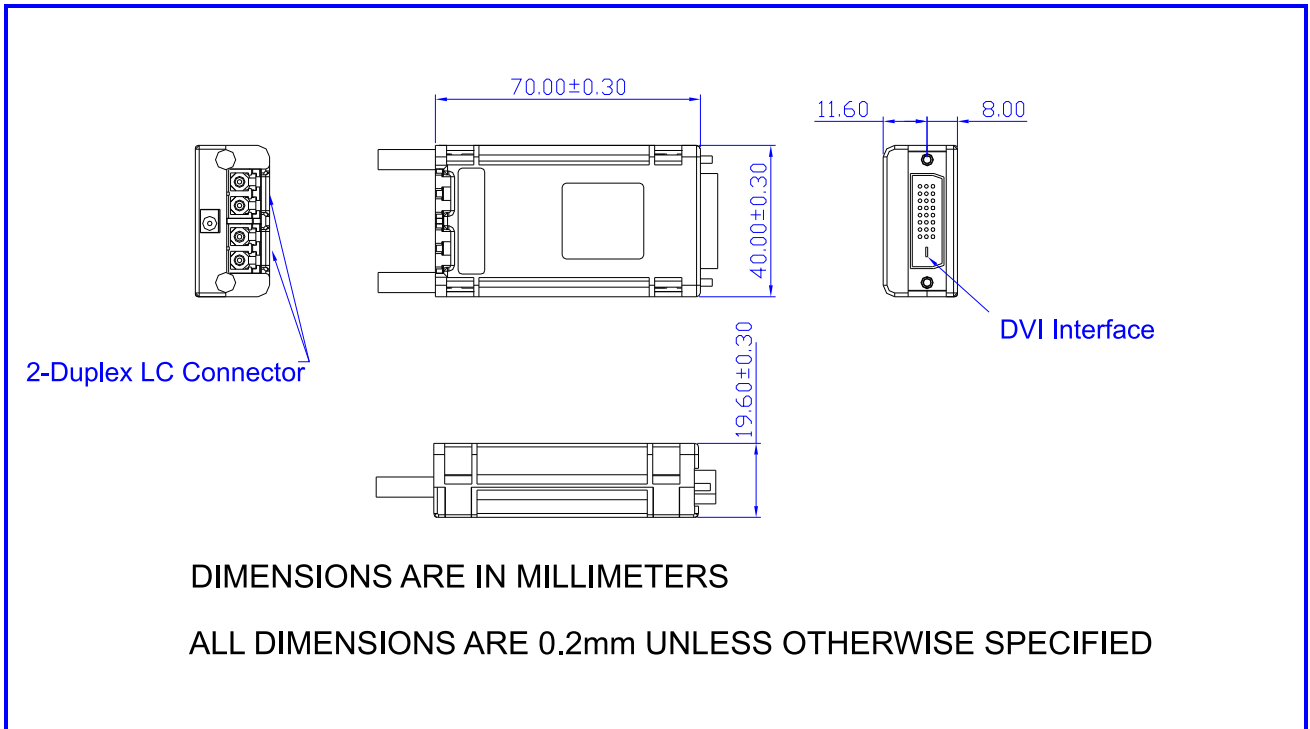
### Requirements

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

### 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.

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## Safety Regulation

CE and FCC approved.



## Installation

Important: Please follow the installation procedure below, Improper, or no operation may result if the start-up sequence is not correctly followed.



Figure - Single Monitor

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### Step 1

Carefully unpack the contents of the shipping group. Check the following items:

- TX module x 1
- RX module x 1
- AC/DC Adaptor x 2
- Plug converter x 2 (Optional)

### Step 2

Connect each optical fiber cables one by one as indicated number. The channel “1” of TX corresponds to channel “1” of RX. The other channels are the same connections.

### Step 3

Connect the AC/DC adapter to the RX module.

Neglect AC/DC adapter to the TX module. The PC may supply voltage source via DVI receptacle.

### Step 4

Plug directly the TX module in the DVI receptacle of PC. Do **NOT** use any intermediate cable or adapter between them.

### Step 5

Plug the RX directly module in the DVI receptacle of display. Do **NOT** use any intermediate cable or adapter between them.

### Step 6

Turn on the power of PC and display.

**Note1:** The set-up of screen might be fitted to the display resolution. It is certain to happen such unfitness if it is first time to boot up in using this extender module. Then, go to Display Properties in Windows systems and click the tap of Settings. Then you can set the right display resolution to meet your display. Once you set the right resolution, you could see displaying the initial screen at the same resolution as just before you powered on.

**Note2:** You might not use the AC/DC adapter at TX module, but use the power supplied through a DVI pin from the graphic cards. After completing the installation instruction, if the system doesn't work properly, you could re-connect the AC/DC adapter while all powers for the system are ON.