



# Optical DVI/ USB/ RS232 Extender, M5-1003-TR

## **Description**

M5-1003 offers extremely long extension of DVI, USB, serial control data and audio up to 2 km (6,560ft) over single-mode fiber cables with two (2) duplex LC connectors. It is tremendously long over the limits of copper extensions like a few of meter of DVI and USB.

Designed for high resolution performance, it guarantees lossless image quality and no frame dropping to deliver perfect graphic data transmission up to WUXGA (1920x1200) at 60Hz refresh rate. It is designed to multiplex and de-multiplex DVI, USB, RS232 and stereo audio so as to be linked over four (4) single-mode LC fibers at 1310nm/1550nm. It provides self EDID programming feature that makes the installation of M5-1003-TR more easy and flexile at any variable resolution.

Optionally, we could include convenient remote console switch and indicator for selecting local control or remote control.

## **Specification**

- Extends DVI, USB, RS232 and Audio with both single and multimode fibers.
  - up to 2km (6,560ft) over two (2) duplex LC single-mode fibers.
  - up to 500m (1,640ft) over two (2) duplex LC multi-mode fibers.
- Supports DVI up to resolution of 1,920X1,200, 24bit color and 60Hz refresh rate.
- Offers DVI and USB ports for Local Display and Keyboard/Mouse.
- · Lossless Image Quality, with no Frame Dropping.
- Complies with USB2.0 (480Mbps).
- Provides Serial Control Data: RS232 through 9 pin D-sub connector.
- Supports one-directional analog stereo audio.
- Self-EDID features
- Interconnection between TX and RX module: two(2) duplex LC patch cords of single or multi-mode fiber.
- · Offers remote console switch and indicators.
- Rack mountable 1U half rack width metal enclosures
- Certifications: CE / FCC, Class 1 Laser Eye Safety

## **Application**

- Medical
- Education
- Military and aerospace
- · Factory automation and traffic control platforms
- · Conference rooms, auditoriums and kiosk systems
- Large scale information display and stadiums

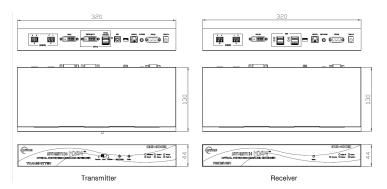
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### **Technical Features**

#### OPTICAL INTERCONNECTION Four (4) fibers Number Four (4) LC connector Connectors Wavelength Up to 2km(6,560ft) over two (2) duplex single-mode fibers One (1) +12V DC power One (1) +12V DC power Up to 500m(1,680ft) over two (2) duplex Transmitter Power Receiver Operating Distance multi-mode fibers VIDEO Supported Resolution WUXGA (1920x1200) Pixel data bit depth 8 bits per channel, 3 channels (RGB) Connectors (Tx) One (1) female DVI-D for input One (1) female DVI-D for local display Connector (Rx) One (1) female DVI-D for output USB Supported Standard Complies with USB 2.0 Data Rate 480Mbps Connectors (Tx) Two (2) female USB-A for local KM One (1) female USB-B for connection with PCs Four (4) female USB-A for remote KM Connector (Rx) AUDIO Connector for Input One (1) Stereo input Connector for Output One (1) Stereo output 48KHz Sampling Rate 25 kΩ Input Impedance Output Impedance SERIAL DATA COMMUNICATION One (1) female 9-pin Dsub Connector (Tx) Connector (Rx) One (1) female 9-pin Dsub Supported Protocol RS-232C

## **Dimension**

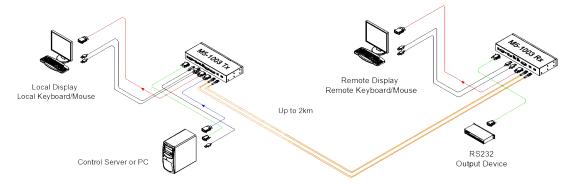
320mm x 130mm x 44mm (WDH)



## **Recommended Operating Conditions**

Parameter	Symbol	Min.	Тур.	Max.	Units
Operating Temp.	T <sub>A</sub>	0	25	+ 50	°C
Storage Temp.	Ts	-30		+ 70	°C
Operating Humidity	Hs	10		85	RH%

# **Connection Diagram**



### **Optolinks**

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