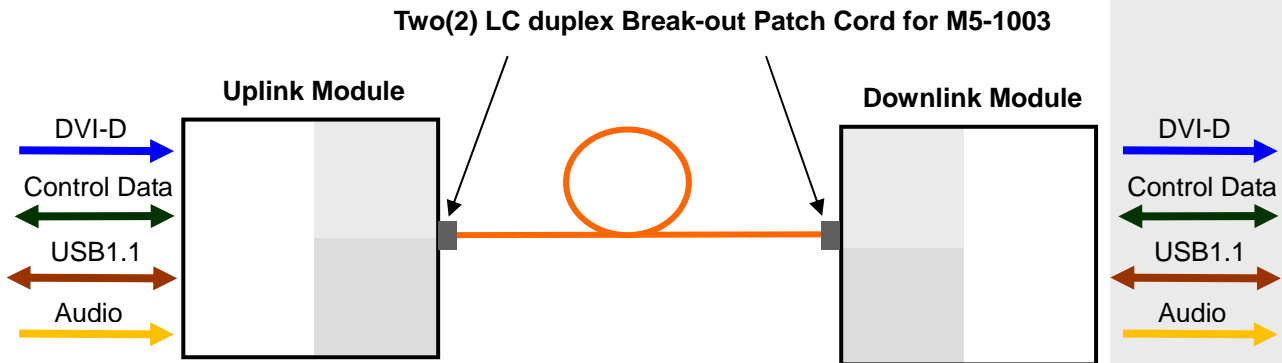


Stretch your digital connection beyond copper

Model: M5-1003



Descriptions

M5-1003 offers extremely long extension of DVI, USB, serial control data and audio up to 2 km 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 (1,900x1,200) 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 flexible at any variable resolution.

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

Features and Specifications

- ◆ Extends DVI, USB, RS232 and Audio up to 1.5 km. optionally 2 km.
- ◆ 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 USB1.1 (12Mbps).
- ◆ Provides Serial Control Data: RS232 through 9 pin D-sub connector.
- ◆ Supports one-directional analog stereo audio.
- ◆ Auto EDID features.
- ◆ Interconnection between TX and RX module: two(2) duplex LC patch cords of single or multi mode fiber.
- ◆ Offers optional remote console switch and indicators.
- ◆ Rack mountable 1U half rack width metal enclosures.



Optical DVI/USB/RS232/AUDIO Extender

Product Certification

EMI and Immunity

The Opticis M5-1003-TR extension modules have been tested and found to comply with the limits for class A device, pursuant to Part 15 of FCC-rules and EN 55022/55024/ 61000-3 for CE certification. These limits are designed to provide reasonable protection due normal use with other home network appliance.

Eye Safety

The Opticis M5-1003-TR extension module has been designed to meet Class 1 eye safety by adapting 1310nm/1550nm transmitter, certified by FDA/CDRH and IEC 60825-1.

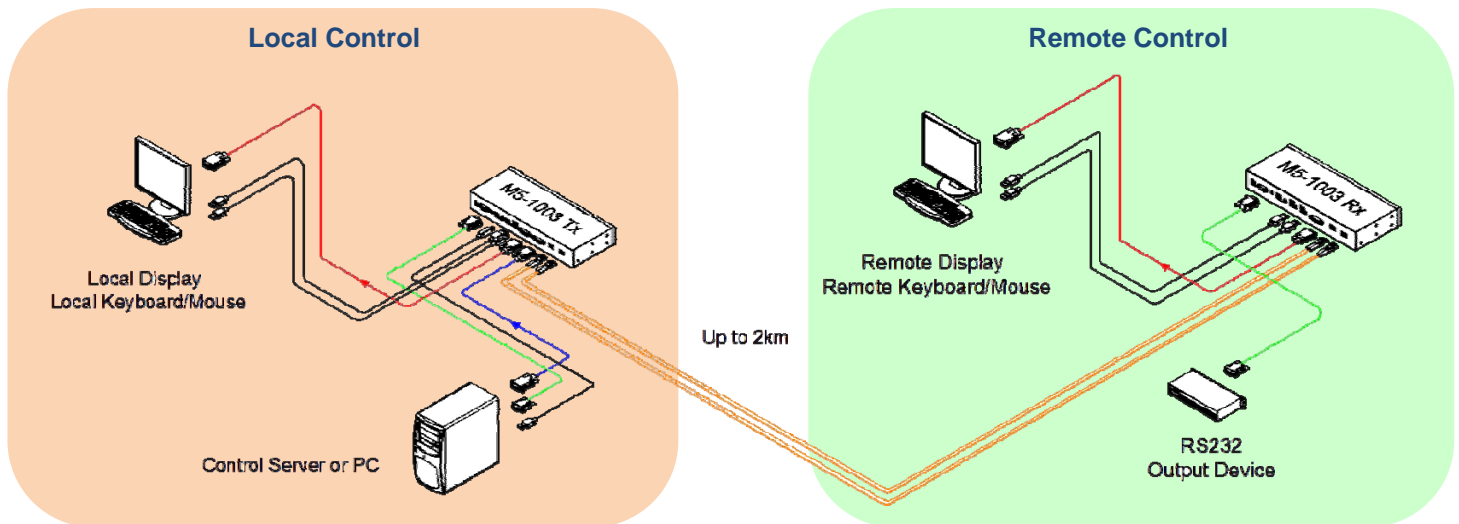
Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Temp.	T _A	0	25	+ 50	°C
Storage Temp.	T _s	-10		+ 85	°C
Storage Humidity	H _s	5		85	RH%

Specifications

OPTICAL INTERCONNECTION	
Number	Four (4) fiber optic
Connectors	Four (4) LC connectors
Wavelength	1310/1550 nm
Transmitter Power	-9 dBm, Typical
Receiver Sensitivity	-19 dBm, Maximum
Operating Distance	Up to 1.5 km (4920 feet) 2.0 km (optionally)
VIDEO	
Supported Resolution	WUXGA (1900x1200)
Pixel data bit depth	8 bits per channel, 3 channels (RGB)
Connectors (Tx)	One (1) female DVI-D for input
Connector (Rx)	One (1) female DVI-D for local monitor One (1) female DVI-D for output
USB	
Supported Standard	USB 1.1
Data Rate	12 Mbps
Connectors (Tx)	One (1) female USB-B for input
Connector (Rx)	Two (2) female USB-A for local KM Four (4) female USB-A for output
AUDIO	
Connector for Input	One (1) 3.5 mm stereo jack for Input in Tx
Connector for Output	One (1) 3.5 mm stereo jack for Output in Rx
Frequency Response	20 Hz to 20 kHz, ± 0.5 dB
Input Impedance	25 kohm
Output Impedance	100 ohm
SERIAL DATA COMMUNICATION	
Connector (Tx)	One (1) male 9-pin Dsub
Connector (Rx)	One (1) male 9-pin Dsub
Supported Protocol	RS-232C

Typical Application



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All contents are subject to be changed without prior notice.