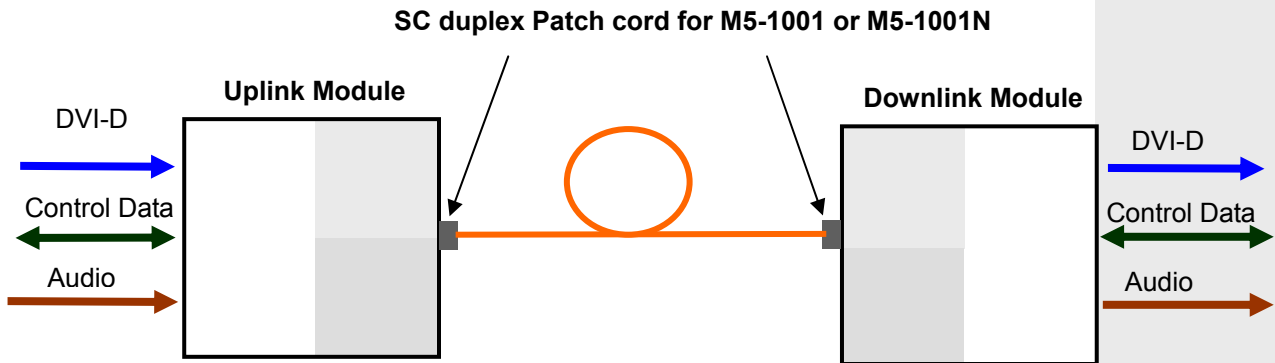


Stretch your digital connection beyond copper



Descriptions

M5-1002 offers extremely long extension of DVI, Stereo Audio and serial control data up to 10,000m over an 8/125um single-mode fiber cable with duplex SC connector. It is tremendously long over the limits of copper extensions like a few of meter of DVI and Audio.

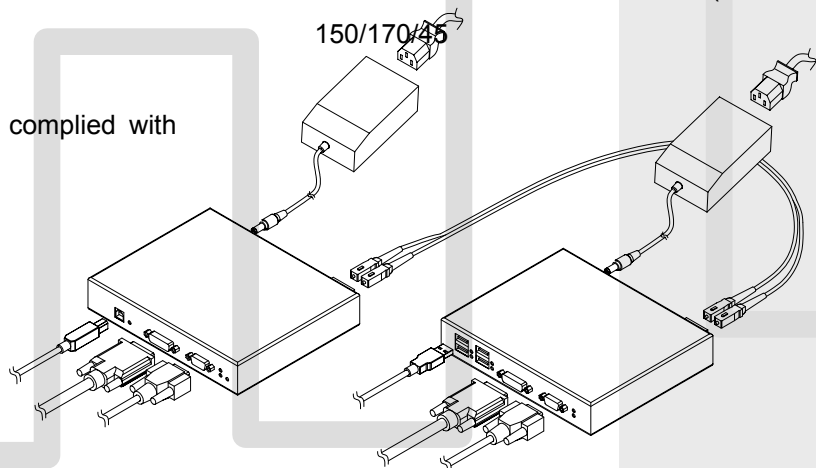
Digital video, Audio, DDC and serial control data are all so encoded into a series of TTL data in the uplink module as to be transmitted over two fibers. Serial control data uplink and EDI Data for displays are oppositely so encoded in the downlink as to be transmitted to the source side over two fibers.

The duplex SC connection grants benefits of simplicity and robustness of connection for industry and commercial applications.

The DDC and Hotplug detect are fully complied with DDC2B standard.

Features and Specifications

- ◆ Extends DVI, Audio and control data up to 10Km if using virtual DDC as an option. The DDC connection limit depends on DDC clock; e.g. 360m for 100 kHz and 1km for 20Hz.
- ◆ Audio interface: 3.5mm diameter Stereo Jack
- ◆ Serial control data: RS232 with 9 pin D-sub female connector in the Tx and Rx.
- ◆ Graphic/Video data: SXGA (1280X1024), 24bit color and 60Hz refresh rate with DVI-I female.
- ◆ Interconnection between TX and RX module: Duplex SC patch cord of 8/125um single mode fiber.
- ◆ +12 V DC power supply to each module
- ◆ Complies with DDC2B
- ◆ Mechanical Dimension of each (W/D/H in mm): 150/170/45



Extend your Digital Connection!

Optical DVI/Audio/ Control Extender M5-1002

Product Certification

EMI and Immunity

The Opticis M5-1002 extension module has 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 M5-1002 extension module has been designed to meet Class 1 eye safety by adapting 1310nm/1550nm transmitter, certified by FDA/CDRH and IEC 60825-1.

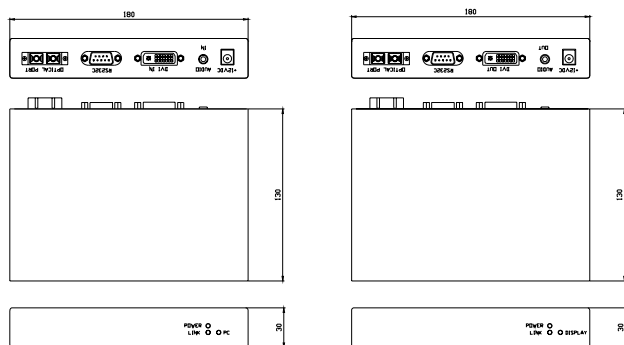
Recommended Operating Conditions

Parameter	Symbol	Min	Typ	Max	Units
Ambient Operating Temperature	T _A	0	25	+ 50	°C
Storage Temperature	T _s	-20		+ 70	°C
Storage Humidity	H _s	10		85	RH%

Electrical Power Supply Characteristics

(T_A = 0 °C to +50 °C, unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Units
Supply Voltage	V _{CC}	11.4	12	12.6	V
Supply Current	TX	I _{TCC}	-	620	600 mA
	RX	I _{RCC}	-	620	650 mA
Power Dissipation	TX	P _{TX}	7.44	8.2	W
	RX	P _{RX}	-	7.44	8.2 W



Uplink

Downlink



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All contents are subject to be changed without prior notice.

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