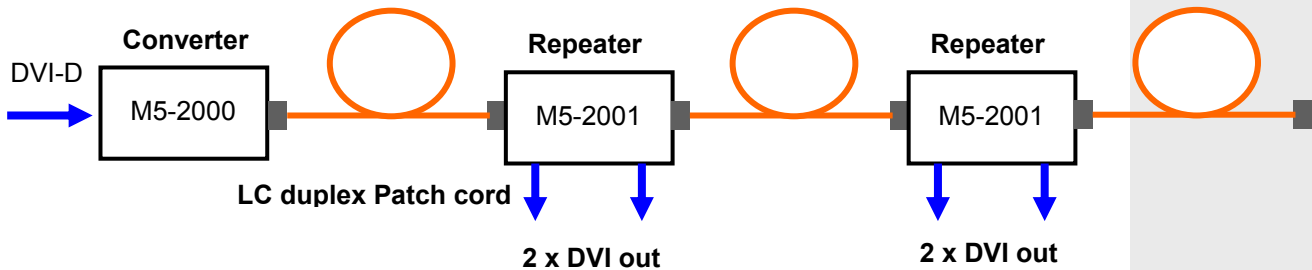


Stretch your digital connection beyond copper

Model: M5-2000 / M5-2001



Descriptions

There are many applications, requiring displaying a graphic source on multi-located long-distance displays. The combination of these two products gives simple and clean solution for such applications; digital signage and multiple information displays.

Optical DVI converter, M5-2000 converts DVI of graphic cards into two channels optical data. Optical DVI repeater, M5-2001 makes such optical data distributed into 2 channels DVI signals for DVI displays and repeat to the next M5-2001. One (1) M5-2000 and multi-located M5-2001 make a daisy-chained display long-distance connection, each of which gives splitting to two (2) DVIs displays.

Between a converter and repeaters, a multimode fiber cable of duplex industrial LC connector gives a simple connection.

Considering mounting on the standard rack, we have designed to place all ports on the front-face except for a power adaptor in the rear-face.

To set right display quality for connected panels, we could program the EDID to the EEPROM on the optical DVI converter, M5-2000, so that the graphic cards read out the right EDID from it, which is so called as a virtual DDC function.

Features and Specifications

- ◆ Extends DVI upto 500meters (1,640feet) between each module over a duplex LC multi-mode fiber
- ◆ Supports graphic/Video data upto SXGA (1280X1024) 24bit color and 60Hz refresh rate with DVI-I female.
- ◆ Makes a daisy-chained connection of displays placed remotely;
 - M5-2000 converts DVI into optical two (2) channels data.
 - M5-2001 splits two (2) DVIs and repeats to the next.
- ◆ +12V 3A DC power supply to each module
- ◆ Complies with CE and FCC for electrical hazards and Class 1 Laser Eye-safety.
- ◆ Mechanical Dimension of each (W/D/H in mm): 180/130/30

Applications

- ◆ Train Information Display.
- ◆ Informs door sign and station stop.
- ◆ Brings commercial advertisements.
- ◆ Delivers daily news.
- ◆ Various digital signage fields.

Extend your Digital Connection!

Optical DVI Daisy-chain Extender M5

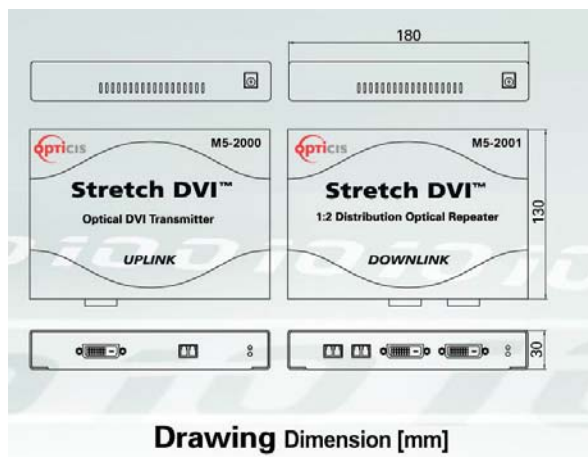
EMI and Immunity

The Opticis M5-2000 and M5-2001 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 M5-2000 or M5-2001 extension modules have been designed to meet Class 1 eye safety by adapting 850nm transmitter, certified by FDA/CDRH and IEC 60825-1.

[Drawing]



M5-2000

M5-2001

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

($T_A = 0\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$, unless otherwise noted)

| Parameter | Symbol | Min | Typ | Max | Units | |
|-------------------|----------|-----------|-----|-------|-------|----|
| Supply Voltage | V_{CC} | 11.4 | 12 | 12.6 | V | |
| Supply Current | M5-2000 | I_{TCC} | - | 700 | 800 | mA |
| | M5-2001 | I_{RCC} | - | 2,600 | 3,000 | mA |
| Power Dissipation | M5-2000 | P_{TX} | | 8.4 | 10.1 | W |
| | M5-2001 | P_{RX} | - | 31.2 | 37.8 | W |



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All contents are subject to be changed without prior notice.