



Stretch DVI Dual Link Extension Module, M1-3R2VI-DU-TR

Description

The M1-3R2VI-DU DVI Module offers a fiber-optic long-distance extension of dual link DVI connectors. DDC connection is implemented over a CAT5e cable with RJ-45C.

The reality of high-speed digital graphic interconnections mandates products to maintain video quality and cost effectiveness of integrated display systems. Optical technology for gigabit digital transmission makes it simple to extend digital graphic data above the extension limits of copper wires providing: pure signal integrity for an ideal visual experience, no EMI/RFI emissions, light weight, rugged cabling and connectors, low power consumption and installation ease.

The extension system consists of transmitter and receiver module boxes with female dual link DVI-D plugs, being able to connect PCs (Media Receiver) and displays (Monitor or HDTV) by dual link DVI-D copper cables respectively. Two (2) duplex LC patch cord fiber cables enable to transmit graphic data, 7 channels including a clock.

The module also provides self-EDID programming feature that makes pure optical interconnection realized. It makes installation of M1-3R2VI-DU much easier and more flexible at any displays of various resolution types. The module extends DVI dual link data of WQXGA (2,560x1,600) resolution up to 2km (6,600 feet) with virtual DDC.

Specification

- Extends all VESA resolution up to WUXGA (1920 X 1200) 60Hz DVI data up to 500 meters (1,640 feet).
- Supports up to 2,560x1600 resolution at 60Hz refresh rate.
- Extends up to 100 m (328 feet) with DDC2B. 2 km (6600 feet) with virtual DDC.
- Fiber-optic cables with four (4) LC or two (2) duplex LC fiber connectors are required.
- Offers DVI single link DVI connection through two (2) LC or one (1) duplex LC LC fibers
- Light weight detachable cables with secure connectors for fiber and copper.
- No software to install - plug & play simplicity.
- Low EMI/RFI emissions and inherent fiber data security.

Applications

- Power Mac G5 with graphic cards supporting Dual Link DVI and 30" Cinema Display
- Medical, military, aerospace, factory, and traffic control integrated digital display systems
- Digital TFT-LCD and plasma flat panel displays and projectors for conference room, auditorium, airports, stadium and kiosk systems.

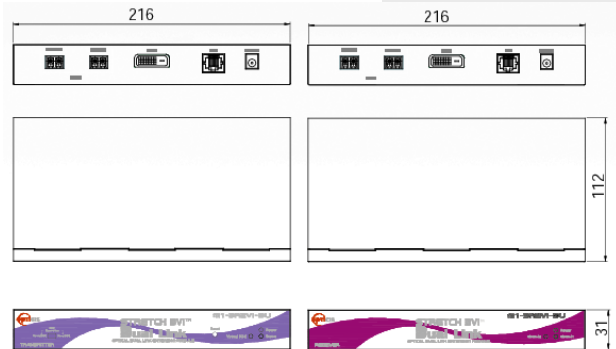
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Operating Conditions

Parameter	Symbol	Min	Typ	Max	Units
Ambient Operating Temperature	T_A	0	25	+ 50	°C
Storage Temperature	T_s	-10		+ 85	°C
Storage Humidity	H_s	5		85	RH%

Dimension

216 x 112 x 31mm (WDH)

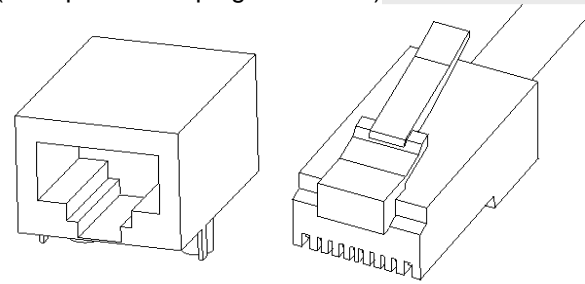


Electrical Power Supply Characteristics

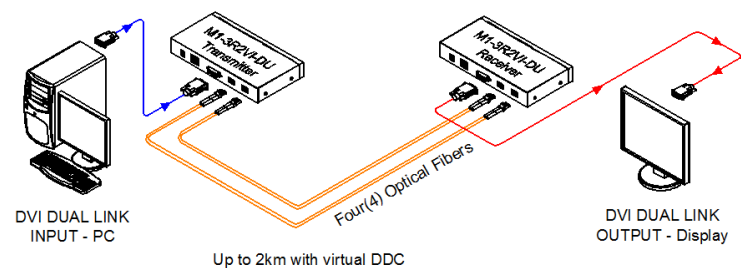
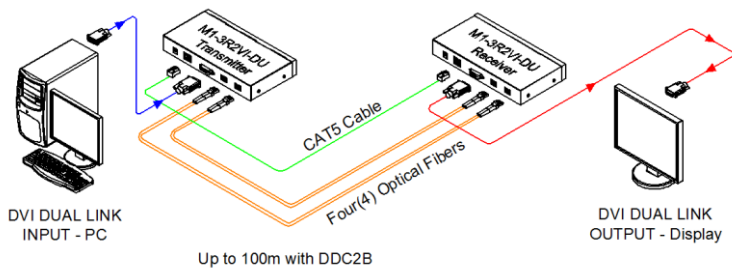
Parameter	Symbol	Min	Typ	Max	Units	
Supply Voltage	V_{CC}	22	24	26	V	
Supply Current	TX	I_{RCC}	180	220	270	mA
	RX	I_{RCC}	270	330	380	mA
Power Dissipation	TX	P_{TX}	3.8	5.0	7.2	W
	RX	P_{RX}	5.8	8.0	10.0	W

■ Connector Types of DDC cable

(Receptacle and plug of RJ-45C)



Connection Diagram



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