

Volition™

Fast Ethernet Media Converter



WORKSTATION AND RACK MOUNT UNITS

The VOL-M100FX media converter is designed to connect existing legacy 100 Base-TX equipment to fiber optic systems. The VOL-M100FX is a small, compact unit that can be installed at any workstation operating at 100Mbps. Its small size allows it to be stored out of the way of the user.

The Rack Mount unit has 12 ports and is easily mounted in a standard 19-inch equipment cabinet. The Fast Ethernet media converter complies with IEEE 802.3u and is based on 1300nm (FX) technology.

Features Include:

- Cost effective copper to fiber conversion using VF-45™ interface
- Full and Half duplex transmission
- Compact size, easy to install
- All front access on rack mount unit
- Complies with 802.3u
- Plug and play

Specifications

Copper

Standard:	IEEE 802.3u
Connectors:	RJ45
Impedance:	100 Ohm

Fiber Optic

Source:	LED
Wavelength:	1300nm
Connector:	VF-45™
Optical Budget:	11 dB min. (62.5/125 µm fiber), 6 dB min. (50/125 µm fiber)
Sensitivity:	-31 dBm min.
Maximum Distance:	2 km on 62.5 µm fiber 2 km on 50 µm fiber

Note: fiber cable loss at 1300nm is 1.5dB/km.

Power Supply Output Requirements (Workstation Unit)

Output Voltage:	7.5 VDC
Output Current:	300mA max.
Polarity:	Inner pin is positive
Size of Connector:	ID = 2.1 mm, OD = 5.5 mm, Length of pin (min.) = 12 mm

Power Supply Requirements (Rack Mount Unit)

90 to 264 VAC, 50 to 60 Hz

Physical and Environmental Specifications (Workstation Unit VOL-M100FX)

Dimensions:	(W) 22 mm x (H) 75 mm x (D) 50 mm (W) 0.88 in. x (H) 3 in. x (D) 2 in.
Weight:	50 g (0.11 lbs.) per unit
Shipping Weight:	2.90 kg (6.38 lbs.), 6 per pack
Operating Temp:	0° C - 42° C (32° F - 104°F)

Physical and Environmental Specifications (Rack Mount Unit VOL-M100FX-12)

Dimensions:	(W) 48.3 cm x (H) 2.9 cm x (D) 13.9 cm (W) 19 in. x (H) 1.17 in. x (D) 5.49 in. (W = 17.3 in. w/o mounting ears)
Weight:	2.16 kg (4.75 lbs.) per unit
Shipping Weight:	2.7 kg (6 lbs.) per unit
Operating Temp:	0° C - 42° C (32° F - 104°F)

Agency Approvals

This media converter conforms to the following standards:

Safety:	UL 1950, EN 60950, CSA 22.2 #950
Electromagnetic Emissions:	FCC Part 15, Class A, EN 55022, Class A

Ordering Information

Model

Description

VOL-M100FX	Fast Ethernet workstation unit
VOL-M100FX-12	Fast Ethernet rack mount unit, 12 ports

Note: For international versions, contact your local 3M subsidiary.

Important Notice

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one year from the date of purchase. 3M MAKES NO OTHER

WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.



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