DI MOTO
TECHNOLOGY IN MOTION

POF MEDIA CONVERTER / SWITCH

DM-1002-C
FAST ETHERNET

The future of networking is here

The DiMoto DM-1002-C is a high-performance commercial-grade Plastic Optical Fibre (POF) Media Converter and Switch interfacing standard 10/100BaseT(X) to 100BaseFX Ethernet over Plastic Optical Fibre.

The unit permits simple networks to be created with both Plastic Optical Fibre and copper links. Alternatively, multiple DM-1002-C units can be connected in a 'daisy chain' topology to extend network reach, while providing 10/100BaseT(X) copper data access points at regular intervals.

The DM-1002-C device features the Optolock® POF connector for plugless termination of bare plastic optical fibre.

EoPOF Overview

Ethernet over Plastic Optical Fibre is a simple, secure and high performance alternative for industrial, commercial and residential networking applications, delivering 100Mbps at over 70 meters.

All Dimoto's products incorporate a plugless termination system, enabling bare POF to be cut to length on-site and securely terminated in seconds.

EoPOF is an ideal solution for new, retrofit and temporary installations. The ability to install alongside power and route inconspicuously significantly reduces deployment time and cost, while the do-it-yourself simplicity empowers end users to continue to expand and modify their networks.

DiMoto's EoPOF Media Converter/Switch: DM-1002-C.

PRODUCT FEATURES

• **Terminate in seconds:** POF can be cut to length on-site and terminated in seconds.

• **Inter operability:** enables the connection of any 10/100 copper Ethernet device to be connected to an EoPOF network.

• **Space saving:** POF is one quarter of the size and one third of the weight of CAT5 - simplifying handling and ideal for congested ducts and cable trays.

• **Simple and safe:** RCLED light sources are certified eye safe and operation in the visible (red) region simplifies debugging and fault detection activities.

• **Data Integrity:** EoPOF is immune to the effects of electrical noise, ground potential variations and lightning induced voltage spikes on data lines.

• **Robust Design:** the strudy metal case protects your media converter from the industrial environment.

Ethernet over Plastic Optical Fibre:
See the world of networking in a whole new light.

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PRODUCT SPECIFICATIONS

Network Ports
2 x 100BaseFX OptoLock® POF Ports
1x 10/100Base T(X) RJ-45 Ports

Standards Compliance
IEEE 802.3i 10BASE-T Ethernet
IEEE 802.3u 100BASE-TX 100BASE-FX
IEEE 802.3x Full Duplex and Flow Control

Switch Specifications
Technology: Store and Forward
Frame Memory: 128KB
Address Table: 2048
Speed: Full wire speed on all ports simultaneously

Optical Specifications
Source Type: RCLED
Wavelength: 660 nm nominal (Red)
Max. Tx Output: -2.0dBm
Min. Tx Output: -8.5dBm
Min Rx Sensitivity: -24dBm
Max Rx Sensitivity: -28.0dBm
Min Optical Link Budget: 15.5dBm
Max Distance: 70m (recommended & dependent on fibre)

Environmental Specifications
Operating Temperature: 0 to 60°C (32 to 140°F)
Storage Temperature: -20 to 85°C (-4 to 185°F)
Operating Humidity: 5% - 90% RH non condensing

Mechanical Specifications
Casing: IP30 Metal Enclosure
Dimensions (WxDxH): 110x65x30mm
Weight: 250g
Mounting: Optional DIN Rail Mount Kit

Power Specifications
Input Voltage: 12VDC
Input Current (@12VDC): 0.2A

Regulatory Approvals
Safety (LED Source): IEC/EN 60825-1
EMI, EMC: CE, FCC, C Tick

Warranty
5 Years (return to base)

Package Contents
1x Media Converter/Switch
1x 12VDC Power Adapter
1x Installation Guide
1x Warranty Card
1x POF Cutting Tool

DiMoto Related Products
DM-MC01: POF Slimline Media Converter
DM-PCI: POF PCI Adapter
DM-USB: POF USB Adapter
DM-1001-C: POF Media Converter
DM-1004-C: 4-Port POF Network Switch
DM-1008-C: 8-Port POF Network Switch
DM-CUTTER: POF multipurpose cutting tool
Fibre Optic Cable

Order Information
DM-1002-C-OPT

Notes
SMI POF connectors and white version available on request.
Please contact sales for details and minimum order quantities.
Plug pack temperature range: 0 to 40°C (32 to 104°F)

Contact **DiMoto**

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DiMoto Pty Ltd designs, develops and markets Ethernet over Plastic Optical Fibre (EoPOF) networking devices and solutions worldwide.

DiMoto is a member of the leading Plastic Optical Fibre body, the Plastic Optical Fibre Trade Organization (POFTO).

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