



## POF SLIMLINE MEDIA CONVERTER

## DM-MC01 FAST ETHERNET

### The future of networking is here

The DiMoto DM-MC01 is a high-performance Plastic Optical Fibre (POF) media converter for interfacing standard 10/100BaseT(X) to 100BaseFX Ethernet over Plastic Optical Fibre.

The device enables standard Ethernet enabled computers and peripherals to be interfaced to a Ethernet over Plastic Optical Fibre network. It is also perfect for creating robust point-to-point optical data links.

The DM-MC01 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.

EoPOF networks can also be confidently deployed where electrical noise, ground potential variations or lightning is of concern.



DiMoto's POF Slimline Media Converter: DM-MC01.

### 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:** Certified eye safe RCLED light sources. 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 sturdy metal case protects your media converter from the industrial environment.
- **Flexible Power Supply Options:** The included USB cord allows power to be drawn directly from a spare USB port in your laptop or PC. A plug pack is also included.

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

# PRODUCT SPECIFICATIONS

## Network Ports

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

## 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

## 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  
Minimum Distance: 70m (recommended and dependent on fibre)

## Environmental Specifications

Operating Temperature: 0 to 40°C (32 to 104°F)  
Storage Temperature: -20 to 85°C (-4 to 185°F)  
Operating Humidity: 5% - 90% RH non condensing

## Mechanical Specifications

Device Dimensions (LxWxH): 100mmx28mmx23mm  
Device Weight: 35g

## Power Specifications

Input Voltage: 5VDC  
Input Current (@5VDC): 0.3A

## Regulatory Approvals

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

## Warranty

12 Months

## Package Contents

1x Media Converter/Switch  
1x 5VDC Power Adapter  
1x CAT5 Patch Cable  
1x USB Power Cable  
1x Installation Guide  
1x Warranty Card  
1x POF Cutting Tool

## DiMoto Related Products

DM-PCI: POF PCI Adapter  
DM-USB: POF USB Adapter  
DM-1001-C: POF Media Converter/Switch  
DM-1002-C: POF Media Converter/Switch  
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-MC01-C-OPT

## Notes

- SMI connector available on request. Please contact sales for details and minimum order quantities.
- Converter mode available on request. Please contact sales for information and minimum order quantities.

## 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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