



INDUSTRIAL POF NETWORK SWITCH

DM-1004-I DM-1008-I
FAST ETHERNET

The future of networking is here

The DiMoto DM-1004-I and DM-1008-I are high-performance unmanaged industrial-grade Plastic Optical Fibre (POF) Network Switches.

The DM-1004-I and DM-1008-I have 4 and 8 plastic optical fibre ports respectively and permit comprehensive Ethernet over Plastic Optical Fibre networks to be deployed.

The DM-1004-I and DM-1008-I devices features the Optolock® POF connector for plugless termination of bare plastic optical fibre, wide power supply inputs, redundant power inputs and an operational temperature range of 0 - 60°C.

EoPOF Overview

Ethernet over Plastic Optical Fibre is a simple, secure and high performance alternative for industrial 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 networks can be confidently deployed where electrical noise, ground potential variations or lightning is of concern. The robust properties of POF combined, immunity to interference, ease of installation and simple maintenance makes DiMoto's EoPOF networks ideal for keeping your industrial automation applications running continuously.



DiMoto's POF Network Switch: DM-1008 (left) and DM-1004 (right).

PRODUCT FEATURES

- **Terminate in seconds:** POF can be cut to length on-site and terminated in seconds.
- **Wide range redundant power inputs:** 12-48 volt dual power inputs support existing industrial DC power supplies.
- **Extended temperature range:** reliable operation in harsh industrial environments.
- **Simple, safe connection test:** a 660nm red LED, safe to the naked eye, signals a connected device.
- **Data Integrity:** EoPOF is immune to the effects of electrical noise, ground potential variations and lightning induced voltage spikes on data lines.
- **Robust Industrial Design:** the DIN rail mounting IP30 metal case protects your network switch from the industrial environment.

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

PRODUCT SPECIFICATIONS

Network Ports

DM-1004-I: 4 x 100BaseFX OptoLock® POF Ports

DM-1008-I: 8 x 100BaseFX OptoLock® POF Ports

Standards Compliance

IEEE 802.3u 100BASE-FX Fast Ethernet

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°C to 60°C (32 to 140°F)

Storage Temperature: -40°C to 100°C (-4 to 185°F)

Operating Humidity: 5% - 90% RH non condensing

Mechanical Specifications

Casing: IP30 Metal Enclosure

Mounting: Optional DIN Rail Mount Kit

Dimensions: 130x75x30mm / 200x75x30mm

Weight: 310g / 460g

Mounting: DIN Rail Mount Kit

Power Specifications

Connection: Screw Terminal Block

Input Voltage: 12-48VDC

Device Power: 4.0W / 6.0W

Redundant Power Inputs

Reverse Polarity Protected Inputs

Regulatory Approvals

Safety (LED Source): IEC/EN 60825-1

EMI, EMC: CE, FCC, C Tick

Warranty

5 Years (return to base)

Package Contents

1x POF Network Switch

1x DIN Rail Mount Kit

1x POF Cutting Tool

1x Installation Guide

1x Warranty Card

DiMoto Related Products

DM-PCI: POF PCI Adapter

DM-USB: POF USB Adapter

DM-1001-I: Industrial POF Media Converter

DM-1002-I: Industrial POF Media Converter/Switch

Order Information

DM-1004-I-OPT

DM-1008-I-OPT

Notes

SMI POF connectors available on request. Please contact sales for details 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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