

INDUSTRIAL 1 PORT and 2 PORT MEDIA CONVERTER

The future of networking is here.

Ethernet over Plastic Optical Fibre is the next generation of networking and cabling technology, promising superior quality of service, easy installation and significant cost savings.

Ethernet over Plastic Optical Fibre (EoPOF) is the latest innovation to emerge for high-volume ethernet applications in the industrial and commercial sectors.

Di Moto's Industrial 1 Port and 2 Port Media Converter enables your data to be transferred between devices using Plastic Optical Fibre over an Ethernet network. (See overleaf for product specifications.)

The sleek and robust media converter simply plugs into POF cable with zero configuration, providing instant connection to fast Ethernet of 100Mbps over Plastic Optical Fibre.

For businesses investing in new or retrofitted networks, Plastic Optical Fibre offers cost savings in both infrastructure and installation.

POF is a fraction of the cost of glass optical fibre, and is cheaper to install than copper cabling. The greatest savings lie in the fast installation and connection of the network - POF cable can lie next to power sources, withstands greater vibration, and is thinner and more flexible in tight spaces.

Plus, simple scissors can be used to terminate connections and a 650nm red LED, safe to the naked eye, signals a connected device, meaning that no specialist equipment or expertise is required.

EoPOF also promises greater network security, as POF cable is difficult to tap without being detected.

The long-term savings come via performance: with EoPOF's electrical immunity, downtime and data corruption due to electrical interference is no longer an issue.

High-speed and highly reliable transportation of data is ensured, meaning quality of service is practically guaranteed from the factory floor to the office.

Now industry can benefit from the reliability, security and economy of Ethernet over Plastic Optical Fibre.

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



Industrial Media Converters: DM-1001 (left) and DM-1002 (right).

PRODUCT FEATURES

- **Wide range redundant power inputs:** 12-48 volt dual power inputs support existing industrial DC power supplies.
- **DIN Rail Mount:** slim packaging mounts to your existing DIN rail installations.
- **Extended temperature range:** reliable operation in harsh industrial environments.
- **Ethernet over Plastic Optical Fibre connectivity:** converts your devices into EoPOF workstations, connecting you to all the operating benefits of Plastic Optical Fibre.
- **Compatibility:** enables the connection of any 10/100 copper Ethernet device to be connected to an EoPOF network.
- **Dual fibre support:** allows daisy-chaining of devices to extend your network.
- **High bandwidth:** powerful performance up to 200Mbps, supporting all current and future Triple Play services.
- **Simple, safe connection test:** a 650nm red LED, safe to the naked eye, signals a connected device.
- **Safe from lightning strike:** Plastic Optical Fibre does not conduct electricity, keeping your Ethernet devices safe from being destroyed by power surge via the network cable.
- **Sturdy and quiet:** the all-metal case protects your media converter from the industrial environment.

PRODUCT SPECIFICATIONS

Network Ports

DM-I001: One Fibre ports and One UTP Port
DM-I002: Two Fibre ports and One UTP Port
OPT – OptoLock Connectorless System

Standards Compliance

IEEE 802.3u 100BASE-FX Fast Ethernet
IEEE 802.3x Full Duplex and Flow Control

Performance Specifications

Internal Backplane bandwidth: Full wire speed on all ports simultaneously
Maximum distance: 100 metres with 0.3NA POF
Frame Memory: 128KB
Address Table: 2048
Noise 0dB

Optical Characteristics

Type: LED
Wavelength: 650 nm nominal (Red)
Maximum Output Power: -2.0 dBm
Minimum Output Power: -8.5 dBm
Sensitivity: -24.0 dBm
Maximum Input Power: -2.0 dBm
Link Power Budget: 14.5 dB

Environmental Specifications

Operating Temperature: 0°C to 60°C
Storage Temperature: -40°C to 100°C
Operating Humidity: 90% RH non condensing
Storage Humidity: 95% RH non condensing

Status LEDs

Power: Red
Link: Yellow
Activity: Green

Power

DM-I001 - 1.5W 12-48VDC
DM-I002 - 2W 12-48VDC
Redundant Power Inputs
Reverse Polarity Protected Inputs
Screw Terminals

Mechanical Specifications

All Metal Enclosure
DM-I001 Dimensions (WxDxH): 100mmx65mmx30mm
Weight: 250g
DM-I002 Dimensions (WxDxH): 100mmx65mmx30mm
Weight: 250g

Regulatory Approvals

CE
FCC
CTick

Warranty

12 Months

Package Contents

1x Media Converter
1x Manual
1x Warranty Card

Di Moto Related Products

PCI Ethernet Card DM-PCI
4 Port Network Switch DM-I004
8 Port Network Switch DM-I008
USB Adapter DM-USB
Fibre Optic Cable 0.3NA
DIN Rail Mount Kit DM-DINKIT

Order Information

DM-I001-I-OPT
DM-I002-I-OPT



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ABOUT DI MOTO

Di Moto is opening the gateway to new and improved networking and cabling technology. Di Moto Pty Ltd designs, develops and supplies Ethernet over Plastic Optical Fibre (EoPOF) networking devices worldwide.

The company's mantra is technology in motion – creating plastic optical fibre ethernet networking solutions.

Di Moto is a member of the leading plastic optical fibre body, the Plastic Optical Fiber Trade Organization (POFTO), and all Di Moto products are ROHS compliant.