



## POF PCI NETWORK CARD

## DM-PCI FAST ETHERNET

### The future of networking is here

The DiMoto DM-PCI is a high performance commercial-grade POF PCI Network Card compatible with a wide variety of operating systems including Windows, MAC OS and Unix.

The DM-PCI network card allows direct optical network connection of a PC, workstation or server to an Ethernet over Plastic Optical Fibre (EoPOF) network.

The network card 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 PCI Network Card: DM-PCI.

### PRODUCT FEATURES

- **Terminate in seconds:** POF can be cut to length on-site and terminated in seconds with a plugless termination system.
- **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.
- **O/S compatibility:** seamless integration with Windows, MAC OS X, Linux and more.

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

# PRODUCT SPECIFICATIONS

## Network Port

1x 100BaseFX OptoLock® POF Port

## Standards Compliance

IEEE 802.3u 100BASE-FX

IEEE 802.3x Full Duplex and Flow Control

PCI Local Bus Revision 2.2

PCI Bus Power Management Interface Revision 1.1

ACPI Revision 1.0

## Switch Specifications

Data Transfer Rate: 200Mbps (full duplex)

## 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 and 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

Dimensions (WxH): 120x40mm

Weight: 60g

## Status LEDs

Link: Yellow

Activity: Green

## Operating System Drivers

(see website for complete list)

Windows Series

Unix Series

MAC OS

## Regulatory Approvals

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

EMI, EMC: CE, FCC, C Tick

## Warranty

12 Months

## Package Contents

1x POF Network Card

1x Device Driver CD

1x Installation Guide

1x Warranty Card

1x POF Cutting Tool

## DiMoto Related Products

DM-MC01: POF Slimline Media Converter

DM-USB: POF USB Adapter

DM-1001-C: POF Media Converter

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-PCI-OPT

## Notes

SMI POF connector 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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