

## 10/100/1000Base-T to 1000Base-X Fiber PoE Media Converters

850nm/1310nm/1550nm, 550m~120km Reach, 1-RJ45 PoE + 1-SC/ST/FC, Optional DIP switch



### Overview

The NT-MC-GMSPOE series are Gigabit Ethernet PoE Media Converters designed to convert 10/100/1000BASE-T copper to 1000BASE-X fiber optic while providing Power over Ethernet cable (PoE) to IEEE 802.3af PoE compliant devices such as IP surveillance cameras, VoIP phones, wireless access points, and other network devices. This PoE media converters acts as Power Sourcing Equipment (PSE) devices to provide power to Powered Devices (PD) that comply with the IEEE 802.3af standard. The auto-sensing function can supply power to PD devices and stop supplying power once the PoE device disconnected.

The PoE media converter provides a perfect PoE solution to deliver data and power network devices saves you the cost and effort of buying, connecting, and installing extra power supplies and electrical cabling for each device.

The Gigabit Ethernet media converter extends the distance of your network by interconnecting LAN devices that are physically separated by long distances, which provide you a simple and very cost-effective solution of connecting Gigabit Ethernet LANs over fiber optic. This fiber media converter provides 0.5km to 120 km transmit distance. It is provided with SC (ST and FC option available) connector.

### Features:

- IEEE 802.3af power on the POE port
- Auto negotiation function allows UTP ports to auto select 10/100/1000M and Full Duplex or Half Duplex
- The UTP port supports the connection of MDI/MDI-X auto crossover
- Multiple fiber ports could be chosen: SC, ST or FC
- Multi-mode or Single-mode Fiber: the max distance up to 120km
- Supporting flow control
- Easy-to-view LED indicators provide status to monitor network activity easily
- Compacts size for easy installation and working with *14-Slot Rack-mount Chassis*
- ROHS compliant and Lead Free
- Default as external switching power

## Technical Specifications

|                     |  |                           |   |
|---------------------|--|---------------------------|---|
| Product Series      | 10/100/1000BASE-T Ethernet to 1000BASE-X Fiber PoE Media Converter   | Standards and Protocols   | IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE 802.3z, IEEE 802.3af   |
| Ports               | 1 x 10/100/1000BASE-T RJ45 port<br>1 x 1000BASE-X SC port (ST or FC also available)                                      | Network Media             | 10/100/1000Base-T: Cat 5 UTP (maximum 100m)<br>1000Base-X: Multi-mode or Single-mode Fiber Cable (maximum 120km)  |
| Flow control        | Full Duplex: IEEE802.3x<br>Half Duplex: back pressure  | LED indicator             | POWER (power)<br>FX LINK (fiber link action)<br>TP LINK1000 (twisted pair connection 1000M)<br>TP LINK100 (twisted pair connection 100M)<br>TP ACT (twisted pair packet forwarding action)<br>FDX (Ethernet interface mode indicator, ON:Full duplex / OFF:Half duplex) |
| Buffer space        | 256KB  | MAC address               | 4K  |
| Wavelength          | 850nm, 1310nm or 1550nm (see order information)  | Fiber Type                | MMF or SMF  |
| Power Supply        | Input: AC 100~240V 50/60Hz<br>Output: DC 52V 0.7A  | Power Over Ethernet (PSE) | 15.4W   |
| Dimensions (WxDxH)  | 26×70×93mm   | Net Weight                | 390 g (Excluding power adapter)   |
| Environment         | Operating: 0°C to 50°C, 10~90% RH<br>Storage: -40°C to 70°C, 5~90% RH  | Compliance                | FDA IEC/EN 60825-1 RoHS, CE   |
| Included in Package | 1 - Fiber Media Converter<br>1 - Universal Power Adapter (EU/US/UK/CN/SA)<br>1 - Warranty Card<br>1 - Instruction Manual | Shipping (Package) Weight | 0.5 kg  |

## Ordering information

| Part number   | Description  |
|---|--|
| <b>10/100/1000BASE-T to 1000BASE-SX Multi-mode 850nm 550m Fiber PoE Media Converter</b>     |  |
| NT-MC-GMM05POE  | 10/100/1000Base-T to 1000Base-SX Multi-mode 850nm 550m PoE MC (SC)     |
| <b>10/100/1000BASE-T to 1000BASE-LX Single Mode 1310nm 20km Fiber PoE Media Converter</b>   |  |
| NT-MC-GSM20POE  | 10/100/1000Base-T to 1000Base-LX Single Mode 1310nm 20km PoE MC (SC)   |
| <b>10/100/1000BASE-T to 1000BASE-EX Single Mode 1310nm 40km Fiber PoE Media Converter</b>   |  |
| NT-MC-GSM40POE  | 10/100/1000Base-T to 1000Base-EX Single Mode 1310nm 40km PoE MC (SC)   |
| <b>10/100/1000BASE-T to 1000BASE-ZX Single Mode 1550nm 80km Fiber PoE Media Converter</b>   |  |
| NT-MC-GSM80POE  | 10/100/1000Base-T to 1000Base-ZX Single Mode 1550nm 80km PoE MC (SC)   |
| <b>10/100/1000BASE-T to 1000BASE-EZX Single Mode 1550nm 120km Fiber PoE Media Converter</b> |  |
| NT-MC-GSM120POE   | 10/100/1000Base-T to 1000Base-EZX Single Mode 1550nm 120km PoE MC (SC) |

 **Warnings****Process plug**

The optical transceiver in the Ethernet Media Converter is supplied with a dust cover. This plug protects the optical transceiver during standard manufacturing processes by preventing contamination from air borne particles. It is recommended that the dust cover remain in the transceiver whenever an optical fiber connector is not inserted.

**Laser Safety**

The Ethernet Media Converter is a Class 1 laser product per international standard IEC 60825-1. Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

We declare under our own responsibility that the above products satisfies all the technical regulations applicable to the product within the scope of Council Directives:

Directive 2014/30/EU, Directive 2014/35/EU, Directive 2011/65/EU

The above products is in conformity with the following standards or other normative documents:

**EN 55022: 2010+AC: 2011, Class A**

**EN 55024: 2010**

**EN 61000-3-2: 2014**

**EN 61000-3-3: 2013**

**EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 +A2: 2013**

**EN 50581: 2012**

*The product carries the CE Mark*



For more product information, visit us on the web at [www.netiks.rs](http://www.netiks.rs)



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