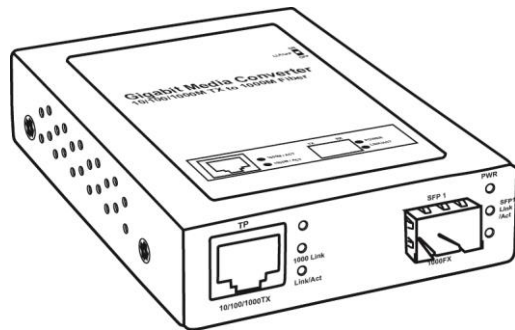


NMC220 series
PoE Media Converter Series
PSE / PD
1000BaseT(X) to 1000BaseX
(IEEE 802.3af/at)

Quick Installation Guide



FCC Warning

This device has been tested and found to comply with limits for a Class B digital device, pursuant to Part 2 and 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

CE Warning

This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Introduction

This PoE Gigabit Ethernet Media Converter Series is designed to bridge a 1000BaseTX signal to a 1000BaseFX signal. It's used to extend the distance connection between two Gigabit Ethernet twisted-pair devices via the fiber cable transparently with no performance degradation.

This PoE Gigabit Ethernet Media Converter Series is based on the switching hub design. It can support Auto-Negotiation and Flow Control function on the twisted-pair port. Besides.

There are two kinds of PoE Media Converter - PSE and PD.

A. PSE - Power sourcing equipment is a device providing power to a PD device.
(IEEE 802.3at ; IEEE 802.3af compatible)

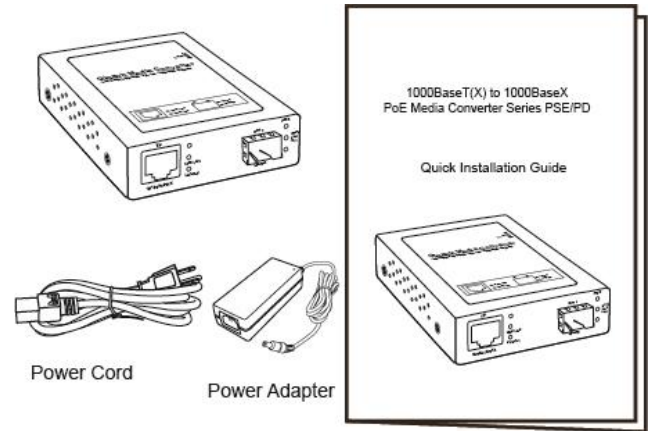
B. PD - Powered device is a device powered by a PSE.
(IEEE 802.3af ; it also can receive power from IEEE 802.3at)

Package Contents

Before you start to install this Media Converter, please verify your package that contains the following items:

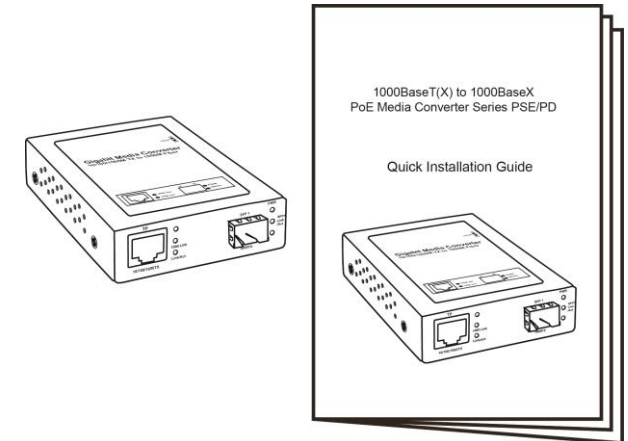
PSE :

- One PoE Media converter
- One Quick Installation Guide
- One Power Adaptor 48V / 0.83A
- One AC power cord



PD:

- One PoE Media converter
- One User's Manual



Key Features

- Compliant with IEEE 802.3 1000BaseT, IEEE 802.3z 1000BaseSX/LX and IEEE 802.3af/at Standards
- 1x 1000T(X) Ethernet TP Port and 1x 1000BaseSX/LX Ethernet Fiber Port
- TP port is either PSE or PD port.
 - a. PSE – Providing power to a PD device. (Max.30W)
 - b. PD – Getting power from PSE device.
- TP Port can support Half/Full-Duplex Auto-MDI/MDI-X and Auto-Negotiation
- Supports Link Fault Pass-through (LFP) Function.
- One 1000BaseSX/LX Fiber Port can support either Multi-Mode or Single-Mode, depending on Optical Fiber Connectors
- Providing a DIP switch for Full- and Half-Duplex selection on TP Port
- Options for 19" Converter Chassis :16-slot or 5-slot for additional expansion use

Installation

I. TP port (RJ-45)

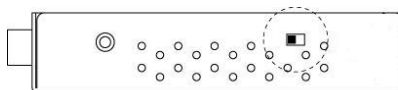
The TP port of converter supports 10Base-T , 100Base-TX,1000BaseT Auto-negotiation, Auto MDI/MDI-X, Flow control and Power over Ethernet function. The cable length up to 100 meters for Cat5, 5e or 6 cables.

II. Fiber Port

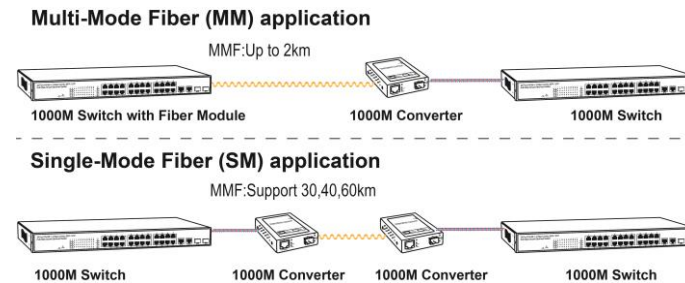
The Fiber port supports multi-mode or single-mode fiber cables.

III. DIP Switch Setting: (LLF/LFP ON/OFF)

Users can have LLF/LFP function turned ON or OFF by a slide switch at the right side of the converter. The factory default is OFF.



Connection



Technical Specifications

Standards	IEEE 802.3af PoE (PD converter) IEEE 802.3at PoE+ (PSE converter) IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3z 1000BaseSX/LX
Features	Number of Port: 1 x 1000T(X) with RJ-45 Connector Option: PSE or PD function 1 x 1000BaseX - Fiber Connector
Data Transfer Rate	Ethernet: 1000Mbps/Half-Duplex 2000Mbps/Full-Duplex
Transmission Media	1000BaseTX : Cat. 5 UTP/STP or above, up to 100 m 1000BaseX: Multi-Mode → 50/125μm or 62.5/125μm Fiber optic cable Single-Mode → 9/125μm or 10/125μm Fiber optic cable
Led Indicators	RJ45: 100M/Act, 1000M/Act SFP : Link/Act System: Power
Power Requirement	PSE : DC 48V / 0.83A PD: without adaptor; getting power from PSE
Power Consumption	6 Watts (Max)
Dimensions	102 x 75 x 23 mm (L x W x H)
Weight	230 g
Operating Temperature	0 to 45°C
Storage Temperature	-20 to 90°C
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC, CE