

PoE+ PD Ethernet Media Converter

COST-EFFECTIVE DATA LINK AND POWER SOURCING SOLUTION



Overview

UMC-1F1T-PD is an unmanaged PD (Power Device) Media Converter, converting 10/100/1000BASE-T copper Ethernet to 100/1000BASE-X Fiber SFP media and vice versa. This PoE+ PD Media Converter is equipped with a convenient and cost-effective 802.3af/at/bt PoE power injection solution, which means it can be conveniently powered via various IEEE 802.3at/bt PoE PSE equipment, no power adapter is required.

The UMC-1F1T-PD provides auto MDI/MDI-X on its TP port and the DIP switch to configure the Link Fault Passthrough function (LFP). The LFP function includes the Link Loss Carry Forward (LLCF)/Link Loss Return (LLR). It can be used as a standalone unit when powered by PoE PSE equipment or used as a slide-in module to 15 slot media converter chassis MC-15SP.

Benefits

- 1x 10/100/1000Mbps Auto-Negotiation RJ45 Port Supporting Auto-MDI/MDIX
- Maximum Transmission Distance Depends on the Inserted Modules
- Auto-negotiation of Half-Duplex / Full-Duplex Transfer Mode
- LEDs Indicate Ethernet and Fiber Link Status at a Glance
- Plug-and-play, Supports 1U 15 Slots Chassis & Stand-alone Use
- Complies with IEEE 802.3, IEEE802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, etc.

Specification

	UMC-1F1T-PD
Converter Type	PoE+ PD Media Converter
Port Type	1x 10/100/1000Base-T Ethernet RJ45 1x 100/1000Base-T Ethernet SFP
Cable Type (Copper)	Cat3/4/5
Cable Type (Fiber)	Multimode 50/125µm or 62.5/125µm Singlemode 9/125µm
Copper Maximum Distance	100m
Fiber Maximum Distance	Vary by SFP Transceiver
PoE Standard	802.3at
Power Requirements	IEEE 802.3af/at/bt PoE 48V-54V DC In-line Power
LED Indicator	System: Power x 1 (Green) TP LINK/ACT, 1000 LINK/ACT (Green). PoE In (Amber) Fiber LINK/ACT (Green)
DIP Switch	LFP function (Disable / Enable) setting
Jumbo Frame	9000
Power Consumption	DC 48V PoE In: 3.1 watts/10.5BTU DC 54V PoE In: 3.2 watts/10.9BTU
Dimensions (HxWxD)	1.02"x2.76"x3.70" (26x70x94mm)
Weight	186g
Speed	Twisted-pair: 10/20Mbps for half/full duplex, 100/200Mbps for half/full duplex 2000Mbps for full duplex Fiber optic: 200Mbps for full duplex, 2000Mbps for full duplex
Network Cables	Twisted-pair: 10BASE-T: 2-pair UTP Cat. 3,4,5, up to 100m 100BASE-TX: 2-pair UTP Cat. 5, up to 100m 1000BASE-T: 4-pair STP Cat 5 up to 100m

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Network Cables

Fiber-optic Cable

1000BASE-SX:
50/125μm or 62.5/125μm multi-mode fiber cable, up to 220/550m/2km.

1000BASE-LX:
9/125μm single-mode cable, providing long distance of 2/10/20/40/80/120km
(depending on SFP module)

100BASE-FX:
50/125μm or 62.5/125μm multi-mode fiber cable for up to 2km (depending on SFP
module)

9/125μm single-mode cable for 20/40/60/120km (vary on SFP module)

Standards Compliance

IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX/100BASE-FX
IEEE 802.3ab 1000BASE-T
IEEE 802.3z 1000BASE-SX/LX
IEEE 802.3x full-duplex and half-duplex back pressure flow control to eliminate packet
loss
IEEE 802.3az Energy Efficient Ethernet (EEE)
IEEE 802.3af Power over Ethernet
IEEE 802.3at Power over Ethernet Plus
IEEE 802.3bt 4-pair Power over Ethernet Plus Plus (Type 3)
IEEE 802.3bt 4-pair Power over Ethernet Plus Plus (Type 4)

Operating Temperature

0 to 50°C (32 to 122°F)

Storage Temperature

-10 to 70°C (14 to 158°F)

Operating Humidity

5 to 95%, non-condensing

Storage Humidity

5 to 95%, non-condensing