

Data Sheet

Gigabit Ethernet Media Converter 10/100/1000Mbps, Stand-alone, Industrial Operating Temp. PF-GE1x-xx-MPF

Issue: March 2009



Features:

- Conversion between auto-adaptation 10Base-T, 100Base-TX or 1000Base-T and 1000Base-SX/LX, full duplex 1000M working pattern
- With distinct HIC solution, low-temperature-rise chip, no need of cooling system, realization of flow control, decrease of broadcast storm
- Supporting broadcast filtering, address auto-learning and auto-updating, and store-and-forward operating mechanism
- Supporting Link Fail Pass fiber breaking defecting (optional)
- Supporting full-duplex flow control or half-duplex back pressure working pattern, along with Auto-negotiation
- Supporting 1916 byte super data packet transmission
- Providing indicator lamps for link-loss, electrical and optical link diagnosing, dynamic data transmission and full/half duplex, data rate
- With more than 50,000 hours MTBF, complying with telecom operating standard
- Extensive temperature range
- Choice of dual fiber (MM), dual fiber (SM) and single fiber (SM) optical ports



Description:

PF-GE1x-xx-MPF can help the user convert their 1000Base TX port to 1000Base RX port, extending the network transmitting distance to 80 kilometers. Although the 1000Base-T technology and the appearance of related adaptors reduced the construction cost of 1000M Ethernet, in the majority of networks the copper wire still sets limit on network extending distance. When the 1000M network copper wire transmitting distance needs to be extended, PF-GE1x-xx-MPF will provide a highly effective solution for the user. It contains a high-level exchanging engine to control error transmitting. The MAC address is auto-sensing and auto updating function offers effective, quick and stable transmission. With ultra wide switching power supply, it can effectively resist the instability of the external voltage to provide the stable fiber optic transmission and the link exchange.

PF-GE1x-xx-MPF has an extensive temperature span, which gives the module an extended life.

This stand-alone media converter has internal power source. Multiple units can be installed in a rack, which can hold 16 units. Redundant power is optional for this solution.

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Specifications:

Access Method:	10/100/1000Mbps
Standard:	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1q, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength:	850nm/1310nm/1550nm
Distance:	Dual Fiber MM: 220m (fiber dimension: 62.5/125 μ m)/550m (fiber dimension: 50/125 μ m) Dual Fiber SM: 20/30/50/80km. CAT5: 100m
Port:	RJ45 Connector: Connecting with STP/UTP Cat5 Optical Connector: MM-SC or ST (fiber dimension: 50,62.5/125 μ m) SM-SC or FC (fiber dimension: 9/125 μ m) Single Fiber SM-SC/ FC (fiber dimension: 9/125 μ m)
Conversion Method:	Media Conversion
Time Delay:	<10 μ s
BER:	<1/1000000000
LED Indicator Lamps:	POWER, FX LINK/ACT(fiber link), FDX (FX-full duplex), TP LINK/ACT (twisted pair link), TP 100 (TP 100M data rate), FX 100 (FX 100M data rate) (external power)
Power Supply:	AC220 0.5A /DC-48(internal power)
Power Dissipation:	5W
Operating Temperature:	-40 ~ 80 $^{\circ}$ C
Humidity:	5%~90%
Storage Temperature:	-40~ 80 $^{\circ}$ C
Storage Humidity:	5%~90% non-condensing

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