PeakOptical®

DATASHEET

DESCRIPTION:

The **PF-SM01F/PF-SM01-TF** series of Fast Ethernet media converters utilize fiber optics to extend the physical distance range of typical Ethernet links to 20km~100Km.

FEATURES:

- Duplex SC, ST or FC Connector Optional
- Negotiation of transmission rates and auto-MDI/MDIX for TX port
- With more than 50,000 hours MTBF
- Supports 1600byte super data packet transmission
- Supports flow control for full and half duplex operation
- Supports link fault pass through function
- Full-positioned LEDs to indicate power and network status

APPLICATIONS:

- Schools, offices, Net bars
- Telecommunication networks

SPECIFICATIONS:

Technical Parameters:

Standard	
IEEE802.3 (10BASE-T)	
IEEE802.3u 100BASE-TX/FX (Fast-Ethernet)	
IEEE802.3x (Flow Control)	
IEEE802.1q, IEEE802.1p QoS, IEEE802.1d Spanning Tree	
10/100BASE-T :	
STP or UTP Category 5/5e/6 cable (Max. 100m)	
100BASE-FX :	
50/125um, 62.5/125um multimode fiber cable (550m)	
9/125um singlemode fiber cable (20/40/60/80/100Km)	
Conversion Mode / Delay Time	
Store-and-Forward < 10us, straight-through<0.9us	
Flow control	
Full duplex-flow control, Half duplex-back pressure	

RJ-45 Port	Auto-MDI/MDIX
Fiber Connector	SC standard, ST/FC optional
Wavelength	1310nm or 1550nm
Dimensions	70mm(W) x 93mm(D) x 25mm(H)
Weight	Net weight : 0.278kg
	Gross weight : 0.744kg (2 pcs/box)
Input Voltage	DC5V1A with External power adapter AC100 ~ 240V / 50-60HZ
Power Consumption	<2.5W
MTBF	50,000 hours
BER	<1/1000000000
MAC Address Table	1K
Buffer Size	1M
Operating	0℃~50℃
Storage	-40℃~70℃
Storage Humidity	5%~90% non-condescending

Ordering Information:

Example:

PF-SM01F	10/100M, Standalone, Dual fiber, SC ,1310nm, Multi-mode, 2km, external power supply
PF-SM01-TF	10/100M, Standalone, Dual fiber, ST, 1310nm, Multi-mode, 2km, external power supply

PF-SM X X X X – X X X X
A B C D E F G

No.	Parameter	Definition		
A	Package Type	1= External Power Supply (5V)	2=Internal Power Supply(220V AC)	3=Internal Power Supply(48V DC)
		4= Card for Rack	5=Managed External Power Supply (5V)	6=Managed Internal Power Supply(220V AC)
		7=Managed Internal Power Supply(48V DC)	8= Managed Card for Rack	
B	Data Rate	1= 10/100M	2= 1000M	3= 10/100/1000M
C	Distance	02= 2km SM	10=10km SM	20= 20km SM
		M2= 2km MM	M5= 500m MM	A0= 100 KM SM
D	Fiber	S= Single Fiber	D= Dual Fiber	SFP= SFP Port
E	Transmitter Wavelength	3 =1310Tx	5= 1550Tx	8= 850nm Tx
F	Optical Port Connector Type	1= SC/UPC	2= FC/UPC	3= ST/UPC
		4= MU/UPC	5= LC/UPC	
G	RJ45 Port Quantity	1= 1RJ45 Port	2= 2 RJ45 Port	