## **PM-7500 Module Series**

# Gigabit and Fast Ethernet modules for the PT-7528-24TX Series rackmount Ethernet switches



#### **Features and Benefits**

- -40 to 85°C wide operating temperature
- IEC 61850-3 and IEEE 1613 compliant



## Certifications



#### Introduction

The PM-7500 Module Series includes Gigabit and Fast Ethernet modules for the PT-7528-24TX Series rackmount Ethernet switches.

#### **Specifications**

#### Ethernet Interface

100BaseFX Ports (multi-mode SC connector)	PM-7500-2MSC: 2 PM-7500-4MSC: 4
100BaseFX Ports (multi-mode ST connector)	PM-7500-2MST: 2 PM-7500-4MST: 4
100BaseFX Ports (single-mode SC connector)	PM-7500-2SSC: 2 PM-7500-4SSC: 4
Combo Ports (10/100/1000BaseT(X) or 100/ 1000BaseSFP+)	PM-7500-2GTXSFP: 2 PM-7500-4GTXSFP: 4

**Optical Fiber** 

		100BaseFX			
			/lulti-Mode	Single-Mode	
Fiber Cable Type		OM1	50/125 µm	G.652	
		OMI	800 MHz x km		
Typical Distance		4 km	5 km	40 km	
	Typical (nm)	1300		1310	
Waveleng- th	TX Range (nm)	1260 to 1360		1280 to 1340	
	RX Range (nm)	1100 to 1600		1100 to 1600	
	TX Range (dBm)	-10 to -20		0 to -5	
Optical Power	RX Range (dBm)	-3 to -32		-3 to -34	
	Link Budget (dB)	12		12 29	



100BaseFX		(		
		P	/lulti-Mode	Single-Mode
Fiber Oable Ture		0141	50/125 µm	0.650
Fiber Cable Type		OM1	800 MHz x km	G.652
Dispersion Pen	lty (dB)		3	1
Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. Note: Compute the "typical distance" of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).				

Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x PM-7500 Series module
Documentation	1 x warranty card 1 x product certificates of quality inspection, Simplified Chinese 1 x product notice, Simplified Chinese

### **Ordering Information**

Model Name	100BaseFX Multi-Mode Ports with SC Connectors	100BaseFX Multi-Mode Ports with ST Connectors	Single-Mode Ports with SC Connectors	Combo Ports, 10/100/ 1000BaseT(X) or 100/ 1000BaseSFP	Operating Temp.
PM-7500-2MSC	2	-	-	-	-45 to 85°C
PM-7500-2MST	-	2	-	-	-45 to 85°C
PM-7500-2SSC	-	-	2	-	-45 to 85°C
PM-7500-4MSC	4	-	-	-	-45 to 85°C
PM-7500-4MST	-	4	-	-	-45 to 85°C
PM-7500-4SSC	-	-	4	-	-45 to 85°C
PM-7500-2GTXSFP	-	-	-	2	-45 to 85°C
PM-7500-4GTXSFP	-	-	-	4	-45 to 85°C

#### Accessories (sold separately)

SFP Modules	
SFP-1FELLC-T	SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1FEMLC-T	SFP module with 1 100Base multi-mode with LC connector for 4 km transmission, -40 to $85^{\circ}$ C operating temperature
SFP-1FESLC-T	SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature



SFP-1620ALC     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX       SFP-1620ALC-T     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX       SFP-1620BLC     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX       SFP-1620BLC-T     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX       SFP-1620BLC-T     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX       SFP-1640ALC     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX       SFP-1640ALC     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX       SFP-1640BLC     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX       SFP-1640BLC     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX       SFP-1640BLC     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX       SFP-1640BLC     WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX       SFP-1640BLC     SFP module with 11000BaseEZX port with LC connector for 40 km transmission; TX       SFP-1640BLC     SFP module with 11000BaseEZX port with LC connector for 30 km transmission, 0 to 60°C operating temperatur	SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
1310 nm, RX 1550 nm, -40 to 85°C operating temperature   SFP-1G20BLC WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 016 05°C operating temperature   SFP-1G20BLC-T WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1510 nm, 06 05°C operating temperature   SFP-1G40ALC WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 06 05°C operating temperature   SFP-1G40ALC-T WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 40 to 85°C operating temperature   SFP-1G40BLC WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 06 05°C operating temperature   SFP-1G40BLC-T WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 40 to 85°C operating temperature   SFP-1GEZXLC SFP module with 11000BaseEZX port with LC connector for 40 km transmission, 0 to 60°C operating temperature   SFP-1GLEXLC-120 SFP module with 11000BaseEX port with LC connector for 30 km transmission, 0 to 60°C operating temperature   SFP-1GLHLC-T SFP module with 11000BaseLH port with LC connector for 40 km transmission, 40 to 85°C operating temperature   SFP-1GLHXLC SFP module with 11000BaseLH port with LC connector for 40 km transmission, 0 to 60°C operating temperature   SFP-1GLHXLC-T SFP module with 11000BaseLSX port with LC connector for 40 km transmiss	SFP-1G20ALC	
1550 nm, RX 1310 nm, 0 to 60°C operating temperature     SFP-1G20BLC-T   1550 nm, RX 1310 nm, A1 to 85°C operating temperature     SFP-1G40ALC   WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40ALC-T   WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40ALC-T   WDM-type (BiD) SFP module with 1000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40BLC   WDM-type (BiD) SFP module with 1000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40BLC-T   WDM-type (BiD) SFP module with 1000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40BLC-T   WDM-type (BiD) SFP module with 1000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1GEZXLC   WDM-type (BiD) SFP module with 1000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1GEZXLC   SFP module with 11000BaseEZX port with LC connector for 40 km transmission, 0 to 60°C operating temperature     SFP-1GLHLC   SFP module with 11000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature     SFP-1GLHLC   SFP module with 11000BaseLH port with LC connector for 40 km transmission, 40 to 85°C operating temperature     SFP-1GLHLC   SFP module with 11000BaseLH port with LC connector for 40 km transmission, 40 to 85°C operating temperature     SFP-1GLHLC   SFP module with 11000Base	SFP-1G20ALC-T	
1550 nm, RX 1310 nm, A0 to 85°C operating temperature     SFP-1G40ALC   WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40ALC-T   WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40BLC   WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40BLC   WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1G40BLC.T   WDM-type (BID) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX     SFP-1GEZXLC   SFP module with 11000BaseEZX port with LC connector for 40 km transmission; 0 to 60°C operating temperature     SFP-1GEZXLC-120   SFP module with 11000BaseEZX port with LC connector for 10 km transmission, 0 to 60°C operating temperature     SFP-1GLHLC   SFP module with 11000BaseEX port with LC connector for 30 km transmission, 0 to 60°C operating temperature     SFP-1GLHLC-T   SFP module with 11000BaseLX port with LC connector for 40 km transmission, -40 to 85°C operating temperature     SFP-1GLHLC   SFP module with 11000BaseLX port with LC connector for 40 km transmission, -40 to 85°C operating temperature     SFP-1GLKLC-T   SFP module with 11000BaseLX port with LC connector for 40 km transmission, -40 to 85°C operating temperature     SFP-1GLKLC-T   SFP module with 11000BaseLX port with LC connector for 00 m transmission, -40 to 85°C operating temp	SFP-1G20BLC	
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	SFP-1GZXLC-T	

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