PM-7200 Module Series

Gigabit and Fast Ethernet modules for PT 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-7200 Module Series includes Gigabit and Fast Ethernet modules for the PT Series rackmount Ethernet switches. IEEE 1588 interface modules provide hardware-based PTP functions for precise time synchronization across the network.

Specifications

Ethernet Software Features

Time Management	PTP models: IEEE 1588 PTP v1/v2 (hardware-based)
Redundancy Protocols	PM-7200-PHR-PTP Series: HSR, PRP
Ethernet Interface	
Combo Ports (10/100/1000BaseT(X) or 1000BaseSFP)	PM-7200-2GTXSFP: 2 PM-7200-4GTXSFP: 4
10/100/1000BaseT(X) Ports PRP/HSR Ports	PM-7200-4GTX-PHR-PTP: 2
100/1000BaseSFP PRP/HSR Ports	PM-7200-4GSFP-PHR-PTP: 2
10/100/1000BaseT(X) Ports (RJ45 connector)	PM-7200-4GTX-PHR-PTP: 2
100/1000BaseSFP Ports	PM-7200-4GSFP-PHR-PTP: 2
10/100BaseT(X) Ports (RJ45 connector)	PM-7200-2TX Series: 2 PM-7200-4TX Series: 4 PM-7200-8TX: 8
10/100BaseT(X) Ports (M12 D-coded 4-pin female connector)	PM-7200-4M12: 4
100BaseSFP Slots	PM-7200-8SFP: 8
100BaseFX Ports (multi-mode SC connector)	PM-7200-1MSC: 1 PM-7200-2MSC Series: 2 PM-7200-4MS Series: 4 PM-7200-6MSC: 6
100BaseFX Ports (multi-mode ST connector)	PM-7200-1MST: 1 PM-7200-2MST Series: 2



	PM-7200-4MST Series: 4 PM-7200-6MST: 6	
100BaseFX Ports (single-mode SC connector)	PM-7200-2SSC Series: 2 PM-7200-4SSC2TX: 4 PM-7200-6SSC: 6	
100BaseFX Ports, Multi-Mode MTRJ Connector	PM-7200-8MTRJ: 8	
PPS Output, BNC Connector	PM-7200-1BNC2MST-PTP: 1	
Optical Fiber		100BaseFX

		100BaseFX			
		•	Multi-Mode	Single-Mode	
Fiber Cable Type		OM1	50/125 μm	G.652	
		OMT	800 MHz x km	G.052	
Typical Distance		4 km	5 km	40 km	
	Typical (nm)	1300		1310	
Waveleng- th	TX Range (nm)	1	260 to 1360	1280 to 1340	
	RX Range (nm)	1100 to 1600		1100 to 1600	
	TX Range (dBm)	-10 to -20 0		0 to -5	
Optical	RX Range (dBm)	-3 to -32		-3 to -34	
Power	Link Budget (dB)	12		29	
	Dispersion Penalty (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-7200 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	1000 Mbps	100 Mbps	PPS Output	Hardware- Based IEEE 1588 PTP V2	PRP/HSR	Operating Temp.
PM-7200-1MSC	-	1 x 100BaseFX, multi- mode, SC connector	-	-	-	-45 to 85°C
PM-7200-1MST	-	1 x 100BaseFX, multi- mode, ST connector	-	-	-	-45 to 85°C
PM-7200-2GTXSFP	2 x combo port, 10/100/1000BaseT(X) or 1000BaseSFP	-	-	-	-	-45 to 85°C
PM-7200-2MSC	-	2 x 100BaseFX, multi- mode, SC connector	-	-	-	-45 to 85°C



Model Name	1000 Mbps	100 Mbps	PPS Output	Hardware- Based IEEE 1588 PTP V2	PRP/HSR	Operating Temp.
PM-7200-2MSC4TX	-	4 x 10/100BaseT(X) 2 x 1000BaseFX, multi- mode, SC connector	-	-	-	-45 to 85°C
PM-7200-2MST	-	2 x 100BaseFX, multi- mode, ST connector	-	-	-	-45 to 85°C
PM-7200-2MST4TX	-	4 x 10/100BaseT(X) 2 x 100BaseFX, multi- mode, ST connector	-	-	-	-45 to 85°C
PM-7200-2SSC	-	2 x 100BaseFX, single- mode, SC connector	-	-	-	-45 to 85°C
PM-7200-2SSC4TX	-	4 x 10/100BaseT(X) 2 x 100BaseFX, single- mode, SC connector	-	-	-	-45 to 85°C
PM-7200-4GTXSFP	4 x combo port, 10/100/1000BaseT(X) or 1000BaseSFP	-	-	-	-	-45 to 85°C
PM-7200-4M12	-	4 x 10/100BaseT(X), M12 connectors	-	-	-	-45 to 85°C
PM-7200-4MSC2TX	-	2 x 10/100BaseT(X) 4 x 100BaseFX, multi- mode, SC connector	-	-	-	-45 to 85°C
PM-7200-4MST2TX	-	2 x 10/100BaseT(X) 4 x 100BaseFX, multi- mode, ST connector	-	-	-	-45 to 85°C
PM-7200-4SSC2TX	-	2 x 10/100BaseT(X) 4 x 100BaseFX, single- mode, SC connector	-	-	-	-45 to 85°C
PM-7200-6MSC	-	6 x 100BaseFX, multi- mode, SC connector	-	-	-	-45 to 85°C
PM-7200-6MST	-	6 x 100BaseFX, multi- mode, ST connector	-	-	-	-45 to 85°C
PM-7200-6SSC	-	6 x 100BaseFX, single- mode, SC connector	-	-	-	-45 to 85°C
PM-7200-8SFP	-	8 x 100BaseFX	-	-	-	-45 to 85°C
PM-7200-8TX	-	8 x 10/100BaseT(X)	-	-	-	-45 to 85°C
PM-7200-1BNC2MST-PTP	-	2 x 100BaseFX, multi- mode, ST connector	1 x BNC connector	-	-	-45 to 85°C
PM-7200-8MTRJ	-	8 x 100BaseFX, multi- mode, MTRJ connector	-	-	-	-45 to 85°C
PM-7200-4TX-PTP	-	4 x 10/100BaseT(X)	-	✓	-	-45 to 85°C
PM-7200-4MST-PTP	-	4 x 100BaseFX, multi- mode, ST connector	-	√	-	-45 to 85°C
PM-7200-4MSC-PTP	-	4 x 100BaseFX, multi- mode, SC connector	-	√	-	-45 to 85°C
PM-7200-4GTX-PHR-PTP	2 x 10/100/1000BaseT(X)	-	_	√	2 x 10/100/1000BaseT(X) PRP/HSR ports	-45 to 85°C
PM-7200-4GSFP-PHR-PTP	2 x 100/1000BaseSFP	-	-	✓	2 x 100/1000BaseSFP PRP/HSR ports	-45 to 85°C



Accessories (sold separately)

SFP Modules

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°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-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
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP 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 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60° C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85° C operating temperature
SFP-1GLHXLC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60° C operating temperature
SFP-1GLHXLC-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 500 m transmission, 0 to 60°C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for 500 m transmission, -40 to 85°C operating temperature
SFP-1GLXLC	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GLXLC-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85° C operating temperature
SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, 0 to 60°C operating temperature



SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, -40 to 85°C operating temperature
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature
SFP-1GZXLC-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature

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