

PM-7200/7500 Series

Gigabit and Fast Ethernet modules for PT series rackmount Ethernet switches

Specifications

Gigabit Ethernet Interface Modules, PM-7200/7500-2G/4G Series



Interface

RJ45 Ports: 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection

Fiber Ports: 1000BaseSFP slots

Note: The PM-7200/7500-2G/4G series Gigabit Ethernet combo modules support 2 or 4 SFP slots.

See the SFP-1G datasheet to select the SFP-1G series Gigabit Ethernet modules for your application.

Fast Ethernet Interface Modules, PM-7200/7500 Series



*Note: See the SFP-1FE datasheet to select SFP-1FE series Fast Ethernet modules for your application.

Interface

RJ45 Ports: 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection

Fiber Ports: 100BaseFX ports (SC/ST/MTRJ or SFP LC connector)

M12 Ports: 10/100BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection

BNC Ports: Time clock signal PPS (pulses per second) output for IEEE 1588 time synchronization

Optical Fiber

| | | 100BaseFX | | |
|------------------|-------------------------|--------------|-------------------------|--------------|
| | | Multi-Mode | | Single-Mode |
| Fiber Cable Type | | OM1 | 50/125 μm 800 MHz*km | G.652 |
| Typical Distance | | 4 km | 5 km | 40 km |
| Wave-length | Typical (nm) | 1300 | | 1310 |
| | TX Range (nm) | 1260 to 1360 | | 1280 to 1340 |
| | RX Range (nm) | 1100 to 1600 | | 1100 to 1600 |
| Optical Power | TX Range (dBm) | -10 to -20 | | 0 to -5 |
| | RX Range (dBm) | -3 to -32 | | -3 to -34 |
| | 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).

Ordering Information

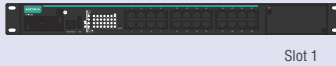
Rackmount Ethernet Switch System and Interface Module Compatibility Chart

Modular Rackmount Ethernet Switch System:

PT-7828/PT-7728-PTP/
PT-7728



PT-7528-24TX



PT-7710



| | | IEEE 1588 Interface Modules | | | | | | Interface Modules | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------------|-----------------------------|------------------|------------------|----------------------|----------------------|-----------------------|-------------------|-----------------|-----------------|-----------------|-------------------|-------------------|--------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|--------------|--------------|---------------|--------------|---------------|-------------------|-------------------|-------------------|
| | | PM-7200-4TX-PTP | PM-7200-4MSC-PTP | PM-7200-4MST-PTP | PM-7200-1BNC2MST-PTP | PM-7200-4GTX-PHR-PTP | PM-7200-4GTFP-PHR-PTP | PM-7200-4GTXSFP | PM-7200-2GTXSFP | PM-7500-2GTXSFP | PM-7500-4GTXSFP | PM-7200-1MSC/2MSC | PM-7200-1MST/2MST | PM-7200-2SSC | PM-7200-8TX | PM-7200-2MSC4TX | PM-7200-2MST4TX | PM-7200-2SSC4TX | PM-7200-4MSC2TX | PM-7200-4MST2TX | PM-7200-4SSC2TX | PM-7200-6MSC | PM-7200-6MST | PM-7200-6SSC | PM-7200-8SFP* | PM-7200-4M12 | PM-7200-8MTRJ | PM-7500-2MSC/4MSC | PM-7500-2MST/4MST | PM-7500-2SSC/4SSC |
| PT-7828 PT-7728 | Slots 1 to 3 | - | - | - | - | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - |
| | Slot 4 | - | - | - | - | - | ✓ | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PT-7728-PTP | Slots 1 to 3 | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - |
| | Slot 4 | - | - | - | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PT-7528-24TX | Slot 1 | - | - | - | - | - | - | - | ✓ | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ |
| PT-7710 | Slot 1 | - | - | - | - | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - |
| | Slot 2 | - | - | - | - | - | - | ✓ | - | - | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

*Note: See the SFP-1FE datasheet to select SFP-1FE series Fast Ethernet modules for your application.

Gigabit Ethernet Modules, PM-7200/7500-2G/4G Series

| Available Models | Port Interface | |
|------------------|---|--|
| | Combo Port, 10/100/1000BaseT(X) or 1000BaseSFP* | |
| PM-7200-2GTXSFP | 2 | |
| PM-7200-4GTXSFP | 4 | |
| PM-7500-2GTXSFP | 2 | |
| PM-7500-4GTXSFP | 4 | |

*The PM-7200/7500-2G/4G series Gigabit Ethernet combo modules support 2 or 4 SFP slots.

Gigabit PRP/HSR Ethernet Modules, PM-7200-PHR-PTP Series:

| Available Models | Port Interface | | | |
|-----------------------|--|---------------------------------------|---------------------|-----------------|
| | 100/1000BaseT(X) (supports PRP/HSR) | 100/1000BaseSFP (supports PRP/HSR) | 10/100/1000BaseT(X) | 100/1000BaseSFP |
| PM-7200-4GTX-PHR-PTP | 2 | – | 2 | – |
| PM-7200-4GSFP-PHR-PTP | – | 2 | – | 2 |

Fast Ethernet Modules, PM-7200/7500 Series

| Available Models | Port Interface | | | | | | | | | |
|----------------------|----------------|-----|-----------------------------|-----------------------------|-----------------------------|----------------------------------|------------------------------|--|------------|------------------------------|
| | 10/100BaseT(X) | | 10BaseFX | 100BaseFX | | | | | 100BaseSFP | PPS output, BNC connector |
| | TP | M12 | Multi-mode, ST Connector | Multi-mode, SC Connector | Multi-mode, ST Connector | Multi-mode, MTRJ Connector | Single-mode, SC Connector | Single-mode, SC Connector, 80 km | | |
| PM-7200-8TX | 8 | – | – | – | – | – | – | – | – | – |
| PM-7200-6MSC | – | – | – | 6 | – | – | – | – | – | – |
| PM-7200-6MST | – | – | – | – | 6 | – | – | – | – | – |
| PM-7200-6SSC | – | – | – | – | – | – | 6 | – | – | – |
| PM-7200-4MSC2TX | 2 | – | – | 4 | – | – | – | – | – | – |
| PM-7200-4MST2TX | 2 | – | – | – | 4 | – | – | – | – | – |
| PM-7200-4SSC2TX | 2 | – | – | – | – | – | 4 | – | – | – |
| PM-7200-2MSC4TX | 4 | – | – | 2 | – | – | – | – | – | – |
| PM-7200-2MST4TX | 4 | – | – | – | 2 | – | – | – | – | – |
| PM-7200-2SSC4TX | 4 | – | – | – | – | – | 2 | – | – | – |
| PM-7200-2MSC | – | – | – | 2 | – | – | – | – | – | – |
| PM-7200-2MST | – | – | – | – | 2 | – | – | – | – | – |
| PM-7200-2SSC | – | – | – | – | – | – | 2 | – | – | – |
| PM-7200-1MSC | – | – | – | 1 | – | – | – | – | – | – |
| PM-7200-1MST | – | – | – | – | 1 | – | – | – | – | – |
| PM-7200-8SFP* | – | – | – | – | – | – | – | – | 8 | – |
| PM-7200-4M12 | – | 4 | – | – | – | – | – | – | – | – |
| PM-7200-8MTRJ | – | – | – | – | – | 8 | – | – | – | – |
| PM-7200-4TX-PTP | 4 | – | – | – | – | – | – | – | – | – |
| PM-7200-4MSC-PTP | – | – | – | 4 | – | – | – | – | – | – |
| PM-7200-4MST-PTP | – | – | – | – | 4 | – | – | – | – | – |
| PM-7200-1BNC2MST-PTP | – | – | – | – | 2 | – | – | – | – | 1 |
| PM-7500-2MSC | – | – | – | 2 | – | – | – | – | – | – |
| PM-7500-2MST | – | – | – | – | 2 | – | – | – | – | – |
| PM-7500-2SSC | – | – | – | – | – | – | 2 | – | – | – |
| PM-7500-4MSC | – | – | – | 4 | – | – | – | – | – | – |
| PM-7500-4MST | – | – | – | – | 4 | – | – | – | – | – |
| PM-7500-4SSC | – | – | – | – | – | – | 4 | – | – | – |

*Note: See the SFP-1FE datasheet to select SFP-1FE series Fast Ethernet modules for your application.

Package Checklist

- PM-7200/7500 interface modules
- Warranty card