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PT-7728 Series

IEC 61850-3 24+4G-port Gigabit modular managed rackmount Ethernet switches



- > IEC 61850-3, IEEE 1613 (power substations), NEMA TS2 (traffic control systems), and EN50121-4 (railway applications) compliant
- > Turbo Ring and RSTP/STP for Ethernet Redundancy
- > Isolated redundant power inputs with universal 24/48 VDC or 110/220 VDC/VAC power supply range
- > Modular design lets you choose from a variety of media combinations
- > -40 to 85°C operating temperature range



Introduction

The PowerTrans PT-7728 is designed to meet the demands of power substation automation systems (IEC 61850-3, IEEE 1613), traffic control systems (NEMA TS2), and railway applications (EN50121-4). The PT-7728's Gigabit and fast Ethernet backbone, redundant ring, and 24/48 VDC or 110/220 VDC/VAC dual isolated redundant power supplies increase the reliability of your communications and save on cabling/wiring costs.

The modular design of the PT-7728 also makes network planning easy, and allows greater flexibility by letting you install up to 4 Gigabit ports and 24 fast Ethernet ports. Along with the optional front or rear wiring, these features together make the PT-7728 suitable for a variety of industrial applications.

Features and Benefits

- IPv6 Ready logo awarded (IPv6 Logo Committee certified)
- IEEE 1588 PTP (Precision Time Protocol) for precise time synchronization of networks
- DHCP Option 82 for IP address assignment with different policies
- Modbus/TCP industrial Ethernet protocol supported
- Turbo Ring and RSTP/STP (IEEE 802.1w/D)
- IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols
- IEEE 802.1Q VLAN and GVRP protocols to ease network planning
- QoS (IEEE 802.1p/1Q) and TOS/DiffServ to increase determinism
- IEEE 802.3ad, LACP for optimum bandwidth utilization
- SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability
- Bandwidth management prevents unpredictable network status
- Lock port limits access to authorized MAC addresses only
- Port mirroring for online debugging
- Automatic warning by exception through email, relay output
- Automatic recovery of connected device's IP addresses
- Line-swap fast recovery
- Configurable by Web browser, Telnet/Serial console, Windows utility, and ABC-01 automatic backup configurator

Specifications

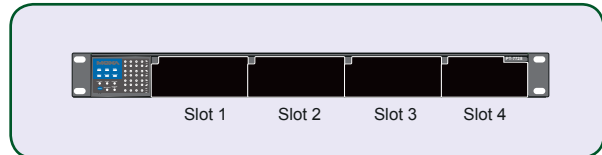
Technology

Standards:

- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseT(X) and 100Base FX
- IEEE 802.3ab for 1000BaseT(X)
- IEEE 802.3z for 1000BaseSX/LX/LHX/ZX
- IEEE 802.3x for Flow Control
- IEEE 802.1D for Spanning Tree Protocol
- IEEE 802.1w for Rapid STP
- IEEE 802.1Q for VLAN Tagging
- IEEE 802.1p for Class of Service
- IEEE 802.1X for Authentication
- IEEE 802.3ad for Port Trunk with LACP

Protocols: IGMPv1/v2 device, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, BootP, TFTP, SNTP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog (Available Soon: DHCP Option 66/67/82, LLDP, Modbus/TCP, IEEE 1588 PTP, IPv6)

Modular Rackmount Ethernet Switch System, PT-7728



MIB: MIB-II, Ethernet-like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9

Flow Control: IEEE 802.3x flow control, back pressure flow control

Switch Properties

Priority Queues: 4

Max. Number of Available VLANs: 64

VLAN ID Range: VID 1 to 4094

IGMP Groups: 256

Interface

Fast Ethernet: Slots 1, 2, and 3 for any combination of 4, 6, 7, or 8-port PM-7200 fast Ethernet modules with 10/100BaseT(X) (TP/M12 interface), 100BaseFX (SC/ST connector), or 100BaseSFP

Gigabit Ethernet: Slot 4 for 2 or 4-port PM-7200 Gigabit Ethernet combo module, 10/100/1000BaseT(X) or 1000BaseSFP

Console Port: RS-232 (RJ45)

System LED Indicators: STAT, PWR1, PWR2, FAULT, MASTER, COUPLER

Module LED Indicators: LNK/ACT, FDX/HDX, RING PORT, COUPLER PORT, SPEED

Alarm Contact: 1 relay output with current carrying capacity of 3 A @ 30 VDC or 3 A @ 240 VAC

Power Requirements

Input Voltage:

- 24 VDC (18 to 36 V)
- 48 VDC (36 to 72 V)
- 110/220 VDC/VAC (88 to 300 VDC, 85 to 264 VAC)

Input Current: (all ports are equipped with fiber)

- Max. 2.58 A @ 24 VDC
- Max. 1.21 A @ 48 VDC
- Max. 0.64/0.33 A @ 110/220 VDC
- Max. 0.53/0.28 A @ 110/220 VAC

Overload Current Protection: Present

Connection: 10-pin terminal blocks

Reverse Polarity Protection: Present

Physical Characteristics

Housing: IP30 protection

Dimensions: 440 x 44 x 325 mm (17.32 x 1.73 x 12.80 in)

Weight: 5900 g

Installation: 19" rack mounting

Environmental Limits

Operating Temperature: -40 to 85°C (-40 to 185°F), cold start requires min. of 100 VAC at -40°C

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Regulatory Approvals

Safety: UL60950-1, CSA C22.2 No. 60950-1, EN60950-1 (Pending)

EMI: FCC Part 15, CISPR (EN55022) class A

Power Automation: IEC 61850-3, IEEE 1613

Maritime: DNV (Pending), GL (Pending)

Traffic Control: NEMA TS2 (Pending)

Rail Traffic: EN50155/EN50121-4

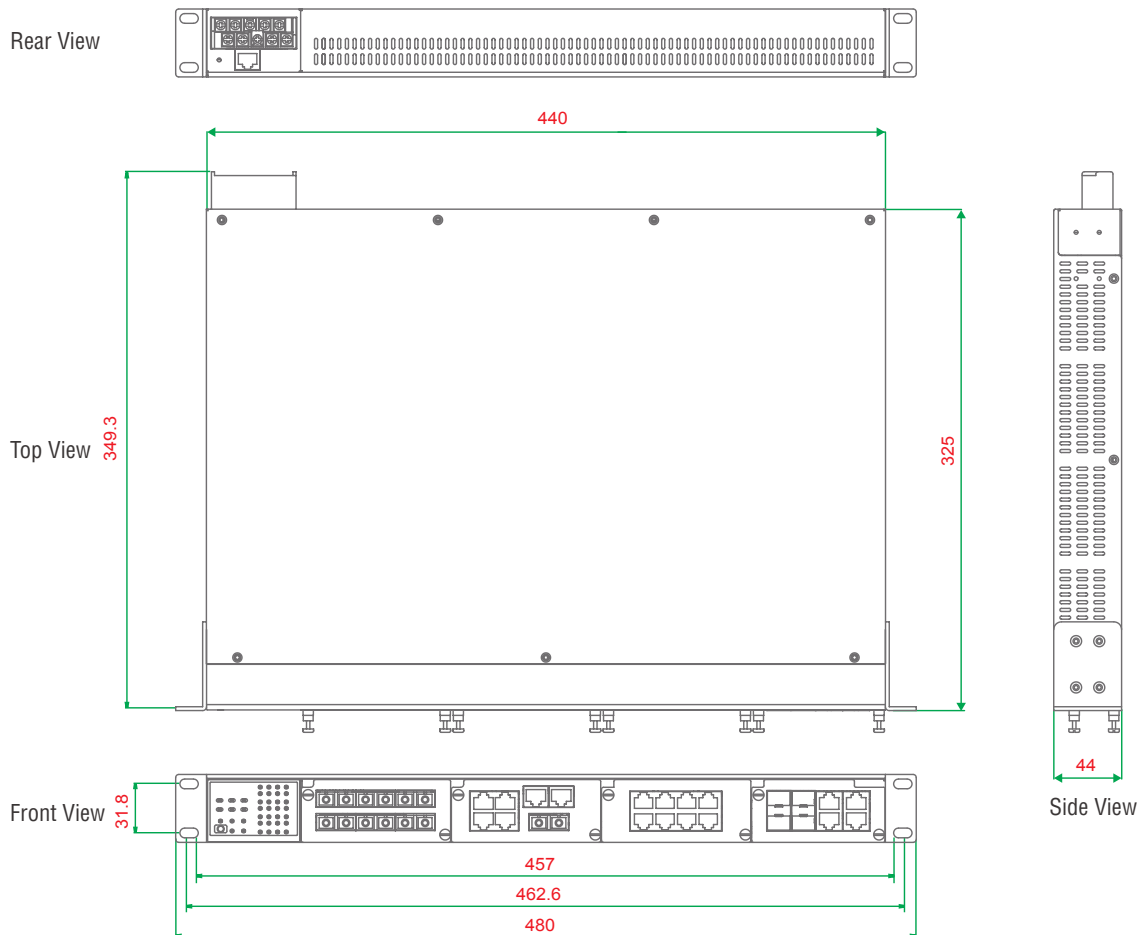
Note: Please check Moxa's website for the most up-to-date certification status.

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions (unit = mm)



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: Ordering Information

Step 1: Select Ethernet switch system

Step 2: Select interface modules

PT-7728 with power supply



PM-7200 modules
(Gigabit or fast Ethernet)

Note: The PT-7728 Ethernet switch system is delivered without interface module. See pages 4 and 5 to choose PM-7200 interface modules.

PT-7728 Modular Rackmount Ethernet Switch System

The PT-7728 switch system consists of 18 modular managed rackmount Ethernet switch systems with 3 slots for fast Ethernet modules, and 1 slot for a Gigabit Ethernet module. A total of 24+4G ports can be installed, and the switch can be used in a temperature range from -40 to 85°C.

| Available Models | | Power Supply | | | | | |
|---------------------------------|--------------------------------|-------------------------|------------------------|---|-------------------------|------------------------|---|
| Front Cabling, Front Display | Rear Cabling, Front Display | Isolated Power Supply 1 | | | Isolated Power Supply 2 | | |
| | | 24 VDC (18 to 36 V) | 48 VDC (36 to 72 V) | HV: 88 to 300 VDC and 85 to 264 VAC | 24 VDC (18 to 36 V) | 48 VDC (36 to 72 V) | HV: 88 to 300 VDC and 85 to 264 VAC |
| PT-7728-F-24 | PT-7728-R-24 | 1 | --- | --- | --- | --- | --- |
| PT-7728-F-24-24 | PT-7728-R-24-24 | 1 | --- | --- | 1 | --- | --- |
| PT-7728-F-24-48 | PT-7728-R-24-48 | 1 | --- | --- | --- | 1 | --- |
| PT-7728-F-24-HV | PT-7728-R-24-HV | 1 | --- | --- | --- | --- | 1 |
| PT-7728-F-48 | PT-7728-R-48 | --- | 1 | --- | --- | --- | --- |
| PT-7728-F-48-48 | PT-7728-R-48-48 | --- | 1 | --- | --- | 1 | --- |
| PT-7728-F-48-HV | PT-7728-R-48-HV | --- | 1 | --- | --- | --- | 1 |
| PT-7728-F-HV | PT-7728-R-HV | --- | --- | 1 | --- | --- | --- |
| PT-7728-F-HV-HV | PT-7728-R-HV-HV | --- | --- | 1 | --- | --- | 1 |

Note: The PT-7728 Ethernet switch systems provide 1 slot for a Gigabit Ethernet interface modules and 3 slots for fast Ethernet interface modules. See pages 4 and 5 to select the PM-7200 Gigabit Ethernet and fast Ethernet interface modules that you need for your own application.



Gigabit/Fast Ethernet Modules for the PT-7728

| Product Model | Interface Module | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|------------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|--------------|--------------|-----------------|-----------------|-----------------|-----------------|--------------|--------------|--------------|
| | PM-7200-4GTXSFP | PM-7200-2GTXSFP | PM-7200-1MSC | PM-7200-1MST | PM-7200-2MSC | PM-7200-2MST | PM-7200-1SSC | 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-7200-1LSC6TX | PM-7200-1MST6TX | PM-7200-1SSC6TX | PM-7200-1MSC6TX | PM-7200-8PoE | PM-7200-8SFP | PM-7200-4M12 |
| Slot 1 | --- | --- | --- | --- | --- | --- | --- | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | ✓ | ✓ | |
| Slot 2 | --- | --- | --- | --- | --- | --- | --- | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | ✓ | ✓ | |
| Slot 3 | --- | --- | --- | --- | --- | --- | --- | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | ✓ | ✓ | |
| Slot 4 | ✓ | ✓ | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Optional Accessories (can be purchased separately)

EDS-SNMP OPC Server Pro: OPC server software that works with all SNMP devices

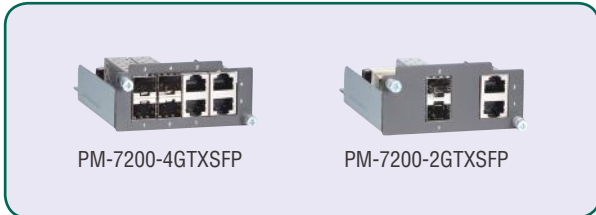
ABC-01: Configuration backup and restoration tool for managed Ethernet switches, 0 to 60°C operating temperature

PM-7200 Series

Gigabit and fast Ethernet modules for PT and IKS series switches

Specifications

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



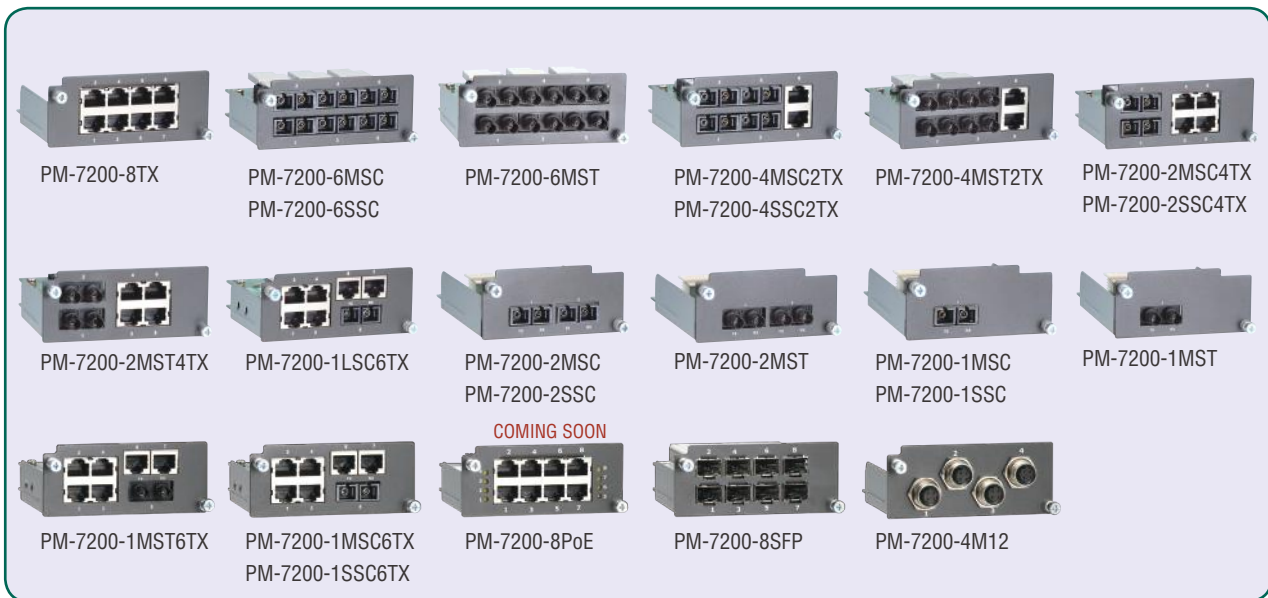
Interface

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

Fiber Ports: 1000BaseSFP slots

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

Fast Ethernet Interface Modules, PM-7200 series



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 or SFP LC connector)

PoE Ports: IEEE 802.3af Power-over-Ethernet Technology, provide up to 15.4 watts per port

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

Optical Fiber

| | 100BaseFX | | |
|------------------|--|--------------------|--------------------|
| | Multi-mode | Single-mode | Single-mode, 80 km |
| Wavelength | 1300 nm | 1310 nm | 1550 nm |
| Max. TX | -10 dBm | 0 dBm | 0 dBm |
| Min. TX | -20 dBm | -5 dBm | -5 dBm |
| RX Sensitivity | -32 dBm | -34 dBm | -34 dBm |
| Link Budget | 12 dB | 29 dB | 29 dB |
| Typical Distance | 5 km ^a 4 km ^b | 40 km ^c | 80 km ^d |
| Saturation | -6 dBm | -3 dBm | -3 dBm |

a. 50/125 μm, 800 MHz*km fiber optic cable
 b. 62.5/125 μm, 500 MHz*km fiber optic cable
 c. 9/125 μm single-mode fiber optic cable
 d. 9/125 μm single-mode fiber optic cable (80 km)

Ordering Information

Gigabit Ethernet Modules for PT and IKS Series Rackmount Ethernet Switches, PM-7200-2G/4G Series

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

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

Rackmount Ethernet Switch System and Interface Module Compatibility Chart

| Product Model | Interface Modules | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-------------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|--------------|--------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|
| | PM-7200-4GTXSFP | PM-7200-2GTXSFP | PM-7200-1MSC | PM-7200-1MST | PM-7200-2MSC | PM-7200-2MST | PM-7200-1SSC | 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-7200-1MSC6TX | PM-7200-1MST6TX | PM-7200-1SSC6TX | PM-7200-1LSC6TX | PM-7200-8PoE | PM-7200-8SFP* |
| PT-7828 | ✓ | ✓ | --- | --- | --- | --- | --- | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | ✓ | ✓ |
| PT-7728 | ✓ | ✓ | --- | --- | --- | --- | --- | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | ✓ | ✓ |
| PT-7710 | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | ✓ | ✓ |
| PT-7324 | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| IKS-6726 | --- | ✓ | --- | --- | --- | --- | --- | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | ✓ | ✓ |
| IKS-6726-PoE | --- | ✓ | --- | --- | --- | --- | --- | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| IKS-6324 | --- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

* If you are using an SFP-1FELLC module, the operating temperature is limited to -40 to 75°C (-40 to 167°F).

Fast Ethernet Modules for PT and IKS Series Rackmount Ethernet Switches, PM-7200 Series

| Available Models | Port Interface | | | | | | | |
|------------------|----------------|-----|-----|--------------------------|--------------------------|---------------------------|----------------------------------|------------|
| | 10/100BaseT(X) | | | 100BaseFX | | | | 100BaseSFP |
| | TP | PoE | M12 | Multi-mode, SC Connector | Multi-mode, ST 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-7200-1LSC6TX | 6 | --- | --- | --- | --- | --- | 1 | --- |
| PM-7200-2MSC | --- | --- | --- | 2 | --- | --- | --- | --- |
| PM-7200-2MST | --- | --- | --- | --- | 2 | --- | --- | --- |
| PM-7200-2SSC | --- | --- | --- | --- | --- | 2 | --- | --- |
| PM-7200-1MSC | --- | --- | --- | 1 | --- | --- | --- | --- |
| PM-7200-1MST | --- | --- | --- | --- | 1 | --- | --- | --- |
| PM-7200-1SSC | --- | --- | --- | --- | --- | 1 | --- | --- |
| PM-7200-1MSC6TX | 6 | --- | --- | 1 | --- | --- | --- | --- |
| PM-7200-1MST6TX | 6 | --- | --- | --- | 1 | --- | --- | --- |
| PM-7200-1SSC6TX | 6 | --- | --- | --- | --- | 1 | --- | --- |
| PM-7200-8PoE | --- | 8 | --- | --- | --- | --- | --- | --- |
| PM-7200-8SFP | --- | --- | --- | --- | --- | --- | --- | 8 |
| PM-7200-4M12 | --- | --- | 4 | --- | --- | --- | --- | --- |

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SFP-1G Series

1G-port Gigabit Ethernet SFP modules



- > Compliant with IEEE 802.3z
- > Differential LVPECL inputs and outputs
- > Single 3.3 V power supply
- > TTL signal detect indicator
- > Hot pluggable
- > Class 1 laser product, complies with EN60825-1



Specifications

Interface

Ethernet Ports: 1

Connectors: Duplex LC Connector or Simplex LC Connector (WDM-type only)

Note: WDM-type SFP modules must be used in pairs (e.g., SFP-1GXXALC and SFP-1GXXBLC)

Optical Fiber

| | Gigabit Ethernet | | | | | | | | | | | | |
|------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | SFP-SX | SFP-LSX | SFP-LX | SFP-LH | SFP-LHX | SFP-ZX | SFP-EZX | SFP-10A | SFP-10B | SFP-20A | SFP-20B | SFP-40A | SFP-40B |
| Wave-length | 850 nm | 1310 nm | 1310 nm | 1310 nm | 1310 nm | 1550 nm | 1550 nm | TX 1310 nm, RX 1550 nm | TX 1550 nm, RX 1310 nm | TX 1310 nm, RX 1550 nm | TX 1550 nm, RX 1310 nm | TX 1310 nm, RX 1550 nm | TX 1550 nm, RX 1310 nm |
| Max. TX | -4 dBm | -1 dBm | -3 dBm | -2 dBm | 1 dBm | 5 dBm | 5 dBm | -3 dBm | | -2 dBm | | 2 dBm | |
| Min. TX | -9.5 dBm | -9 dBm | -9.5 dBm | -8 dBm | -4 dBm | 0 dBm | 0 dBm | -9 dBm | | -8 dBm | | -3 dBm | |
| RX Sensitivity | -18 dBm | -19 dBm | -20 dBm | -23 dBm | -24 dBm | -24 dBm | -30 dBm | -21 dBm | | -23 dBm | | -23 dBm | |
| Link Budget | 8.5 dB | 10 dB | 10.5 dB | 15 dB | 20 dB | 24 dB | 30 dB | 12 dB | | 15 dB | | 20 dB | |
| Typical Distance | 550 m ^a | 2 km ^b | 10 km ^c | 30 km ^c | 40 km ^c | 80 km ^c | 110 km ^c | 10 km ^c | | 20 km ^c | | 40 km ^c | |
| Saturation | 0 dBm | -3 dBm | -3 dBm | -3 dBm | -3 dBm | -3 dBm | -3 dBm | -1 dBm | | -1 dBm | | -1 dBm | |

a. 50/125 μm, 400 MHz * km or 62.5/125 μm, 500 MHz * km @ 850 nm multi-mode fiber optic cable

b. 62.5/125 μm, 750 MHz * km @ 1310 nm multi-mode fiber optic cable

c. 9/125 μm single-mode fiber optic cable

Environmental Limits

Operating Temperature:

Standard Models: 0 to 60°C (32 to 140°F)

Wide Operating Temp. Models: -40 to 85°C (-40 to 185°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Regulatory Approvals

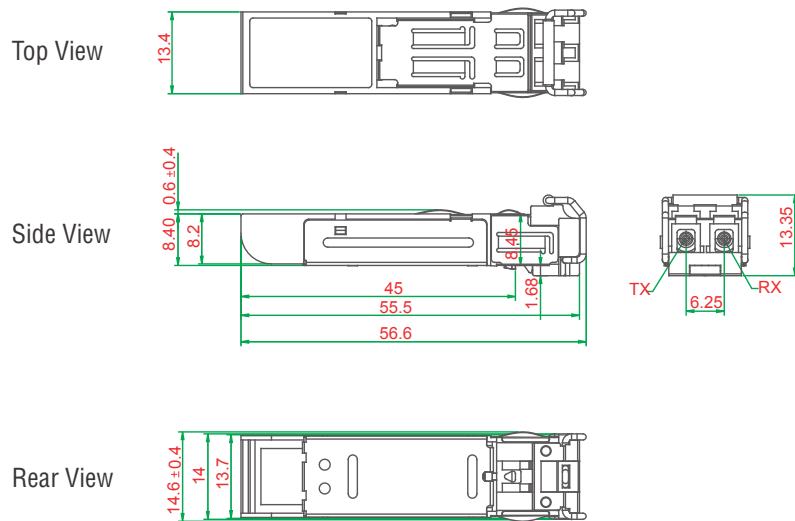
Safety: UL, TÜV

Warranty

Warranty Period: 3 years

Details: See www.moxa.com/warranty

Dimensions (unit = mm)



Ordering Information

SFP Modules

| Available Models | | Port Interface | | | | | | |
|----------------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| Standard Temperature (0 to 60°C) | Wide Temperature (-40 to 85°C) | 1000BaseSX, LC Connector, 0.5 km | 1000BaseLSX, LC Connector, 2 km | 1000BaseLX, LC Connector, 10 km | 1000BaseLH, LC Connector, 30 km | 1000BaseLHX, LC Connector, 40 km | 1000BaseZX, LC Connector, 80 km | 1000BaseEZ, LC Connector, 110 km |
| SFP-1GSXLC | SFP-1GSXLC-T* | 1 | --- | --- | --- | --- | --- | --- |
| SFP-1GLSXLC | SFP-1GLSXLC-T | --- | 1 | --- | --- | --- | --- | --- |
| SFP-1GLXLC | SFP-1GLXLC-T | --- | --- | 1 | --- | --- | --- | --- |
| SFP-1GLHLC | SFP-1GLHLC-T | --- | --- | --- | 1 | --- | --- | --- |
| SFP-1GLHXL | SFP-1GLHXL-T | --- | --- | --- | --- | 1 | --- | --- |
| SFP-1GZXLC | SFP-1GZXLC-T | --- | --- | --- | --- | --- | 1 | --- |
| SFP-1GEZXL | --- | --- | --- | --- | --- | --- | --- | 1 |

Note: SFP-1GSXLC-T: -20 to 75°C operating temperature

WDM-type (BiDi) SFP Modules

| Available Models | | Port Interface | | | | | |
|----------------------------------|--------------------------------|----------------------------------|------------------------|----------------------------------|------------------------|----------------------------------|------------------------|
| Standard Temperature (0 to 60°C) | Wide Temperature (-40 to 85°C) | 1000BaseSFP, LC Connector, 10 km | | 1000BaseSFP, LC Connector, 20 km | | 1000BaseSFP, LC Connector, 40 km | |
| | | TX 1310 nm, RX 1550 nm | TX 1550 nm, RX 1310 nm | TX 1310 nm, RX 1550 nm | TX 1550 nm, RX 1310 nm | TX 1310 nm, RX 1550 nm | TX 1550 nm, RX 1310 nm |
| SFP-1G10ALC | SFP-1G10ALC-T | 1 | --- | --- | --- | --- | --- |
| SFP-1G10BLC | SFP-1G10BLC-T | --- | 1 | --- | --- | --- | --- |
| SFP-1G20ALC | SFP-1G20ALC-T | --- | --- | 1 | --- | --- | --- |
| SFP-1G20BLC | SFP-1G20BLC-T | --- | --- | --- | 1 | --- | --- |
| SFP-1G40ALC | SFP-1G40ALC-T | --- | --- | --- | --- | 1 | --- |
| SFP-1G40BLC | SFP-1G40BLC-T | --- | --- | --- | --- | --- | 1 |

The SFP-1G series modules can be used with the following products

- EDS-728/828 series: IM-2GSFP series Gigabit Ethernet interface modules
- EDS-G509 series: 9G-port full Gigabit managed Ethernet switches
- EDS-518A series: 16+2G-port Gigabit managed Ethernet switches
- EDS-510A series: 7+3G-port Gigabit managed Ethernet switches
- EDS-P510 series: 7+3G-port Gigabit PoE managed Ethernet switches
- PT and IKS series: PM-7200-2G/4G series Gigabit Ethernet interface modules
- EDS-G308 series: 8G-port full Gigabit unmanaged Ethernet switches
- IMC-101G series: Industrial Gigabit media converters

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