PT-G7728 Series

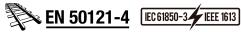
IEC 61850-3 28-port Layer 2 full gigabit modular managed Ethernet switches

Features and Benefits

- IEC 61850-3 Edition 2 Class 2 compliant
- Hot-swappable interface and power modules for continuous operation
- Built-in MMS server based on IEC 61850-90-4 switch data modeling for power SCADA
- · IEEE 1588 hardware time stamp supported
- V-ON™ ensures millisecond-level multicast data and video network recovery



Certifications





Introduction

The PT-G7728 modular switches provide up to 28 Gigabit ports, including 4 fixed ports, 6 interface module slots, and 2 power module slots to ensure sufficient flexibility for a variety of applications. The PT-G7728 Series is designed to meet evolving network requirements, including a hotswappable module design that enables you to change or add devices without shutting down your device.

The multiple Ethernet modules (RJ45, SFP, and PoE) and power units (24/48 VDC, 110/220 VAC/VDC) provide even greater flexibility as well as suitability for different operating conditions. The switches support a full Gigabit platform that provides enough bandwidth to set up an Ethernet backbone. Certifications include IEC 61850 Edition 2 Class 2 to ensure high availability and wide usage.

Specifications

Ethernet Interface

10/100/1000BaseT(X) Ports (RJ45 connector)	2
100/1000BaseSFP Ports	2
Module	6
Slot Combination	See the LM-7000H datasheet for Gigabit Ethernet module and PoE+ module information
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1X for authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3x for flow control

Ethernet Software Features

Management	IPv4/IPv6, SNMP Inform, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BOOTP, TFTP, LLDP, RARP, HTTP, HTTPS, Telnet, Flow control, Back Pressure Flow Control, Port Mirror, Fiber check, Dying Gasp, SMTP, Syslog
MIB	MIB-II, Ethernet-like MIB, Bridge MIB, P-BRIDGE MIB, Q-BRIDGE MIB, RSTP MIB, RMON MIB Groups 1, 2, 3, 9



Filter	IGMP v1/v2/v3, GMRP, GVRP, 802.1Q, QinQ VLAN
Redundancy Protocols	Link Aggregation, MSTP, RSTP, STP, Turbo Chain, Turbo Ring v1/v2, V-ON
Security	RADIUS, TACACS+, SSH, Port Lock, Broadcast storm protection, MAB authentication, Sticky MAC, Access control list
Time Management	NTP Server/Client, SNTP, IEEE 1588v2 PTP (hardware-based)
Power Substation	IEC 61850 QoS, GOOSE Check
Industrial Protocols	EtherNet/IP, Modbus TCP
Switch Properties	
Priority Queues	8
Max. No. of VLANs	512
VLAN ID Range	1 to 4094
IGMP Groups	4096
MAC Table Size	16 K
Packet Buffer Size	12 Mbits
Jumbo Frame Size	9.6 KB
Serial Interface	
Console Port	Micro USB Type B
USB Interface	
Storage Port	USB Type A



Power Parameters

Power Parameters	
Input Voltage	with PWR-LV-P48 installed: 24/48 VDC for the switch system 48 VDC for PoE system (53 to 57 VDC is recommended for PoE+ devices) with PWR-HV-P48 installed: 110/220 VDC/VAC for the switch system 48 VDC for PoE system (53 to 57 VDC is recommended for PoE+ devices)
Operating Voltage	with PWR-LV-P48 installed: 18 to 72 VDC for the switch system 46 to 57 VDC for PoE systems with PWR-HV-P48 installed: 88 to 300 VDC, 90 to 264 VAC for the switch system 46 to 57 VDC for PoE systems
Input Current	with PWR-LV-P48 installed: PWR input current (switch system) Max. 0.49 A @ 24 VDC Max. 0.25A @ 48 VDC EPS input current (PoE system) Max. 0.53 A @ 48 VDC (excluding power consumption of PoE devices) with PWR-HV-P48 installed: PWR input current (switch system) Max. 0.12 A @ 110 VDC Max. 0.07 A @ 220 VDC Max. 0.09 A @ 110 VAC Max. 0.18 A @ 220 VAC EPS input current (PoE system) Max. 0.53 A @ 48 VDC (excluding power consumption of PoE devices)
Physical Characteristics	

Physical Characteristics

IP Rating	IP30
Dimensions	443 x 44 x 280 mm (17.44 x 1.73 x 11.02 in)
Weight	3080 g (6.8 lb)
Installation	19-inch rack mounting

Environmental Limits

Operating Temperature	-40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 55032/24
ЕМІ	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 4 kV; Signal: 4 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Power Substation	IEC 61850-3 Edition 2.0 Class 2, IEEE 1613
Railway	EN 50121-4
Safety	EN 62368-1, UL 62368-1

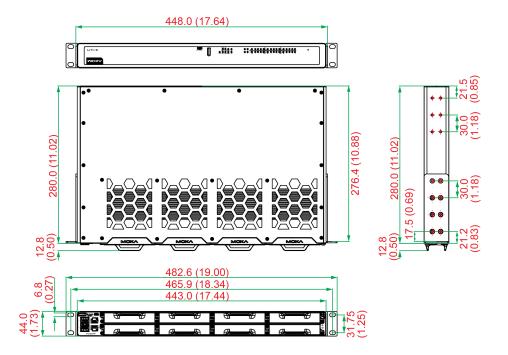


MTBF

Time	449,542 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x PT-G7728 Series switch
Cable	USB cable (Type A male to Micro USB type B)
Installation Kit	2 x cap, for Micro-B USB port 1 x cap, metal, for ABC-02 USB storage port 2 x rack-mounting ear 2 x cap, plastic, for SFP slot
Documentation	x quick installation guide x warranty card x substance disclosure table x product certificates of quality inspection, Simplified Chinese x product notice, Simplified Chinese
Note	SFP modules, modules from the LM-7000H Module Series, and/or modules from the PWR Power Module Series need to be purchased separately for use with this product.

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Layer	100/1000Base SFP Slots	10/100/1000BaseT(X) Ports RJ45 Connector	PoE Ports, 10/100/ 1000Base T(X) RJ45 Connector	Operating Temp.
PT-G7728	2	2 to 26	2 to 26	0 to 24	-40 to 85°C



Accessories (sold separately)

LM-7000H Module Series

LM-7000H-4GP6E Gigabit Ethernet module for PT-G7728/G7828 series with 4 10/1000Base TRIP P6E/P6E+ ports LM-7000H-4GPFP Gigabit Ethernet module for PT-G7728/G7828 series with 4 10/1000Base SPP alots LM-7000H-4GTX Gigabit Ethernet module for PT-G7728/G7828 series with 4 10/1000Base SPP alots LM-7000H-4GTX Gigabit Ethernet module for PT-G7728/G7828 series with 4 10/10001000 BaseT(D) ports Storage Kits ABC-02-USB-T Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, -40 to 75°G operating temperature. SFP Modules 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 single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature SFP-1FEMLC-T SFP module with 1 100Base single-mode with LC connector for 10 km transmission, -40 to 85°C operating temperature SFP-1G10ALC WDM-type (Big0) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1505 nm, -40 to 85°C operating temperature SFP-1G10BLC WDM-type (Big0) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1505 nm, -40 to 85°C operating temperature SFP-1G10BLC WDM-type (Big0) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 150 nm, RX 1510 nm, RX 1500 nm, 0 to 80°C operating temperature SFP-1G20BLC-T WDM-type (Big0) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 150 nm, RX 1510 nm, 0 to 80°C operating temperature SFP-1G20BLC-T WDM-type (Big0) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 150 nm, RX 150 nm, 0 to 80°C operating temperature SFP-1G20BLC-T WDM-type (Big0) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 150 nm, RX 150 nm, 0 to 80°C operating temperature SFP-1G40BLC-T WDM-type (Big0) SFP module with 1 100	LM-7000H Module Series	
LM-7000H-4GTX Gigabit Ethernet module for PT-G7728/G7828 series with 4 10/100/1000 Base1(X) ports Storage Kits ABC-02-USB-T Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, -40 to 75°C operating temperature SFP Modules SFP Modules SFP-IFELLC-T SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature SFP-IFESLC-T SFP module with 1 100Base multi-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature SFP-IGHOALC WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 mm, RX 1550 mm, -40 to 85°C operating temperature SFP-IGHOBLC-T WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 mm, RX 1550 mm, -40 to 85°C operating temperature SFP-IGHOBLC-T WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 150 mm, RX 1310 mm, RX 1500 mm, -40 to 85°C operating temperature WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 150 mm, RX 1310 mm, RX 1500 mm, -40 to 85°C operating temperature WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1550 mm, RX 1310 mm, RX 1550 mm, -40 to 85°C operating temperature SFP-IG20ALC-T WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1310 mm, RX 1550 mm, -40 to 85°C operating temperature SFP-IG20BLC-T WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1550 mm, RX 1310 mm, -40 to 85°C operating temperature SFP-IG20BLC-T WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1310 mm, RX 1350 mm, -40 to 85°C operating temperature SFP-IG40BLC-T WIDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 40 km transmission; TX 1310 mm, -40 to 85°C o	LM-7000H-4GPoE	Gigabit Ethernet module for PT-G7728/G7828 series with 4 10/100/1000 BaseT(X) PoE/PoE+ ports
Storage Kits ABC-02-USB-T Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, -40 to 75°C operating temperature SFP-Modules SFP-IFELLC-T SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature SFP-IFEMLC-T SFP module with 1 100Base single-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature SFP-IFEMLC-T SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature SFP-IGUALC WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -80 to 85°C operating temperature SFP-IGUALC-T WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1330 nm, 10 50°C operating temperature SFP-IGUBLC-T WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, no 10 50°C operating temperature SFP-IGUBLC-T WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 130 nm, no 10 50°C operating temperature SFP-IG20ALC-T WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, RX 1310 nm, no 10 50°C operating temperature SFP-IG20BLC WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1350 nm, 10 50°C operating temperature SFP-IG20BLC-T WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1350 nm, 10 50°C operating temperature SFP-IG20BLC-T WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1350 nm, 10 50°C operating temperature SFP-IG40ALC-T WDM-type (BIDI) SFP module with 1 100BaseSFP port with LC connector for 40 km transmission; TX 1350 nm, RX 1350 nm, 10 50°C ope	LM-7000H-4GSFP	Gigabit Ethernet module for PT-G7728/G7828 series with 4 100/1000Base SFP slots
ABC-02-USB-T Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, -40 to 75°C operating temperature SFP Modules SFP-1FEMLC-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 single-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature SFP-1FEMLC-T SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature SFP-1FESLC-T SFP module with 1 100Base single-mode with LC connector for 10 km transmission; TX 1310 mm, RX 1550 mm, 0 to 60°C operating temperature SFP-1G10ALC WDM-type (BD) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 mm, RX 1550 mm, -40 to 85°C operating temperature SFP-1G10BLC WDM-type (BD) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 mm, RX 1310 mm, -40 to 85°C operating temperature SFP-1G10BLC-T WDM-type (BD) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 mm, RX 1310 mm, -40 to 85°C operating temperature SFP-1G20ALC WDM-type (BD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 mm, RX 1550 mm, 0 to 80°C operating temperature SFP-1G20ALC-T WDM-type (BD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 mm, 10 to 80°C operating temperature SFP-1G20BLC-T WDM-type (BD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 mm, 10 to 80°C operating temperature SFP-1G20BLC-T WDM-type (BD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 mm, 10 to 80°C operating temperature SFP-1G40ALC WDM-type (BD) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 mm, 10 to 80°C operating temperature SFP-1G40ALC-T WDM-type (BD) SFP module with 1 1000BaseSFP port with LC c	LM-7000H-4GTX	Gigabit Ethernet module for PT-G7728/G7828 series with 4 10/100/1000 BaseT(X) ports
SFP Modules SFP Module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature SFP-1FELLC-T SFP module with 1 100Base multi-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature SFP-1FEMC-T SFP module with 1 100Base multi-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature SFP-1GLOALC SFP-1GLOALC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 mm, RX 1550 mm, 0 to 60°C operating temperature SFP-1G10ALC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 mm, RX 1550 mm, 0 to 80°C operating temperature SFP-1G10BLC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1550 mm, 100 to 80°C operating temperature SFP-1G10BLC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1550 mm, 100 to 80°C operating temperature SFP-1G20ALC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1550 mm, 100 to 80°C operating temperature SFP-1G20ALC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1310 mm, RX 1550 mm, 100 to 80°C operating temperature SFP-1G20BLC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1550 mm, 100 to 80°C operating temperature SFP-1G20BLC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1550 mm, 100 to 80°C operating temperature SFP-1G20BLC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 1550 mm, 100 to 80°C operating temperature SFP-1G40ALC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 40 km transmission; TX 1550 mm, 100 to 80°C operating temperature SFP-1G40ALC WDM-type (BID) SFP module with 1 100BaseSFP port with LC connector for 40 km transmission; TX 15	Storage Kits	
SFP-1FELLC-T SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 86°C operating temperature SFP-1FEMLC-T SFP-nodule with 1 100Base multi-mode with LC connector for 40 km transmission, -40 to 86°C operating temperature SFP-1FESLC-T SFP-module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 86°C operating temperature SFP-1G10ALC WDM-type (BID) 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 (BID) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1310 nm, 0 to 60°C operating temperature SFP-1G10BLC WDM-type (BID) 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 (BID) 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 (BID) 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-1G20BLC WDM-type (BID) 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-1G20BLC WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1310 nm, 0 to 60°C operating temperature SFP-1G20BLC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1310 nm, 0 to 60°C operating temperature SFP-1G40ALC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1310 nm, 0 to 60°C operating temperature SFP-1G40BLC WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1350 nm, 0 to 60°C operating temperature SFP-1G40BLC WDM-type (BID) SFP	ABC-02-USB-T	
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 (BiD) 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 (BiD) 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 (BiD) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 80°C operating temperature SFP-1G10BLC-T WDM-type (BiD) 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 (BiD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, RX 1550 nm, 0 to 80°C operating temperature SFP-1G20ALC-T WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 80°C operating temperature SFP-1G20BLC WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 80°C operating temperature SFP-1G20BLC-T WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 80°C operating temperature SFP-1G40ALC-T WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, RX 1350 nm, 0 to 80°C operating temperature SFP-1G40BLC-T WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 80°C operating temperature SFP-1G40BLC-T WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0	SFP Modules	
SFP-1FESLC-T SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 10 to 60°C operating temperature SFP-1G10ALC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, not 60°C operating temperature SFP-1G10BLC WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, not 60°C operating temperature SFP-1G10BLC-T WDM-type (BiDl) 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 (BiDl) 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 (BiDl) 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-1G20BLC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature SFP-1G20BLC-T WDM-type (BiDl) 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-1G40ALC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature SFP-1G40ALC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, nX 1310 nm, -40 to 85°C operating temperature SFP-1G40ALC-T WDM-type (BiDl) 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-1G40ALC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC conn	SFP-1FELLC-T	
SFP-1G10ALC WDM-type (BID) 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 WDM-type (BID) 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 (BID) 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 (BID) 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 (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature SFP-1G20ALC-T WDM-type (BID) 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-1G20BLC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1350 nm, 10 to 60°C operating temperature SFP-1G20BLC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 10 to 60°C operating temperature SFP-1G40ALC WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1350 nm, 10 to 60°C operating temperature SFP-1G40ALC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, 10 to 80°C operating temperature SFP-1G40ALC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, 10 to 80°C operating temperature SFP-1G40BLC WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, 10 to 80°C operating temperature SFP-1G40BLC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating	SFP-1FEMLC-T	·
SFP-1G10ALC-T WDM-type (BiD) 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 WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 80°C operating temperature SFP-1G10BLC-T WDM-type (BiD) 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 (BiD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 80°C operating temperature SFP-1G20ALC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 80°C operating temperature SFP-1G20BLC WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, 20 to 85°C operating temperature SFP-1G20BLC-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, 20 to 85°C operating temperature SFP-1G40ALC-T WDM-type (BID) 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-T WDM-type (BID) 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-T WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature SFP-1G40BLC-T WDM-type (BID) 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-1GEZYLC-120 SFP module with 1 1000BaseEZX port with LC connector for 40 km transmission, 0 to 60°C operating temperature SFP-1GLHLC-T SFP module with 1 1000BaseLEX port with LC connector for 30 km transmission, 0 to 60°C operating temperature SFP-1GLHXLC	SFP-1FESLC-T	
SFP-1G10BLC WDM-type (BiDl) 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 (BiDl) 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 (BiDl) 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 (BiDl) 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-1G20ALC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, RX 3130 nm, -40 to 85°C operating temperature SFP-1G20BLC WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 3130 nm, 0 to 60°C operating temperature SFP-1G40ALC WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, DX 100 nm, 0 to 60°C operating temperature SFP-1G40ALC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, RX 3130 nm, 0 to 60°C operating temperature SFP-1G40BLC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, RX 3130 nm, 0 to 60°C operating temperature SFP-1G40BLC-T WDM-type (BiDl) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 3130 nm, 0 to 60°C operating temperature SFP-1GEZXLC SFP module with 1 1000BaseSEZX port with LC connector for 40 km transmission, 0 to 60°C operating temperature SFP-1GLHLC-T SFP module with 1 1000BaseLHX port with LC connector for 30 km transmission, 0 to 60°C operating temperature SFP-1GLHLC-T SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating te	SFP-1G10ALC	
SFP-1G10BLC-T WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -040 to 85°C operating temperature WDM-type (BiD) SFP module with 11000BaseSFP 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 (BiD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°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 1310 nm, 0 to 60°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 1310 nm, 0 to 60°C operating temperature SFP-1G40ALC-T WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1350 nm, 0 to 60°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 1350 nm, 0 to 60°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 1310 nm, RX 1350 nm, 0 to 60°C operating temperature SFP-1G40BLC-T WDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX 1350 nm, RX 1310 nm, 0 to 60°C operating temperature SFP-1GEZXLC SFP module with 11000BaseEZX port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature SFP-1GEZXLC SFP module with 11000BaseEZX port with LC connector for 10 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-T SFP module with 11000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature SFP-1GLHLC-T SFP module with 11000BaseLHX port with LC connector for 40 km	SFP-1G10ALC-T	
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 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 WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1310 nm, 0 to 60°C operating temperature 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, -0 to 60°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, N 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 1310 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, 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, -0 to 60°C operating temperature SFP-1GEZXLC SFP module with 1 1000BaseEZX port with LC connector for 10 km transmission, 0 to 60°C operating temperature SFP-1GLHXLC SFP module with 1 1000BaseLHX port with LC connector for 30 km transmission, -0 to 60°C operating temperature SFP-1GLHXLC SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°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-1G10BLC	· · · · ·
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 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 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-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, -40 to 85°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 40 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-T SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature SFP-1GLHLC-T SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature	SFP-1G10BLC-T	
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 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°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 40 km transmission, -40 to 85°C operating temperature SFP-1GLHLC-T SFP module with 1 1000BaseLH port with LC connector for 40 km transmission, 0 to 60°C operating temperature	SFP-1G20ALC	**
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 1350 nm, RX 1310 nm, 8X 1550 nm, PX 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-1G40BLC-T SFP module with 1 1000BaseEZX 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 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 40 km transmission, -40 to 85°C operating temperature SFP-1GLHLC-T SFP module with 1 1000BaseLH port with LC connector for 40 km transmission, 0 to 60°C operating temperature SFP-1GLHLC-T SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature	SFP-1G20ALC-T	· · · · ·
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	SFP-1G20BLC	**
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 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 SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature	SFP-1G20BLC-T	
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	SFP-1G40ALC	· · · · ·
SFP-1GEZXLC SFP module with 1 1000BaseEZX 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	SFP-1G40ALC-T	· · · · ·
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	SFP-1G40BLC	· · · · · · · · · · · · · · · · · · ·
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	SFP-1G40BLC-T	
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	SFP-1GEZXLC	
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	SFP-1GEZXLC-120	·
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	SFP-1GLHLC	
temperature SFP-1GLHXLC-T SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C	SFP-1GLHLC-T	
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	SFP-1GLHXLC-T	·



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

Power Supplies

PWR-HV-P48	Power supply module for PT-G7728/G7828 series, (110/220 VAC/VDC) with system power input, relay and PoE power input
PWR-LV-P48	Power supply module for PT-G7728/G7828 series, (24/48 VDC) with system power input, relay and PoE power input

Software

MXview-50	Industrial network management software with a license for 50 nodes (by IP address)
MXview-100	Industrial network management software with a license for 100 nodes (by IP address)
MXview-250	Industrial network management software with a license for 250 nodes (by IP address)
MXview-500	Industrial network management software with a license for 500 nodes (by IP address)
MXview-1000	Industrial network management software with a license for 1000 nodes (by IP address)
MXview-2000	Industrial network management software with a license for 2000 nodes (by IP address)
MXview Upgrade-50	License expansion of MXview industrial network management software by 50 nodes (by IP address)

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