# ICS-G7848A Series

### 48G Layer 3 full Gigabit modular managed Ethernet switches



#### **Features and Benefits**

- Up to 48 Gigabit Ethernet ports
- Up to 48 optical fiber connections (SFP slots)
- Up to 48 PoE+ ports with external power supply (with IM-G7000A-4PoE module)
- Fanless, -10 to 60°C operating temperature range
- · Modular design for maximum flexibility and hassle-free future expansion
- · Hot-swappable interface and power modules for continuous operation
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches), and STP/RSTP/MSTP for network redundancy
- · Isolated redundant power inputs with universal 110/220 VAC power supply range
- · Supports MXstudio for easy, visualized industrial network management
- V-ON<sup>™</sup> ensures millisecond-level multicast data and video network recovery

Certifications CEFC

### Introduction

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The ICS-G7848A Series full Gigabit backbone switches' modular design makes network planning easy, and allows greater flexibility by letting you install up to 48 Gigabit Ethernet ports. The ICS-G7848A Series also supports Layer 3 routing functionality to facilitate the deployment of applications across networks, making them ideal for large-scale industrial networks.

The ICS-G7848A's full Gigabit capability increases bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. The fanless switches support the Turbo Ring, Turbo Chain, and RSTP/STP redundancy technologies, and come with an isolated redundant power supply to increase system reliability and the availability of your network backbone.

#### **Additional Features and Benefits**

- Layer 3 switching functionality to move data and information across
  IEEE 802.1Q VLAN and GVRP protocol to ease network planning networks (ICS-G7800A Series)
- Advanced PoE management functions: PoE output setting, PD failure check, PoE scheduling, and PoE diagnostics (with IM-G7000A-4PoE module)
- · Command line interface (CLI) for quickly configuring major managed functions
- Supports advanced VLAN capability with Q-in-Q tagging
- DHCP Option 82 for IP address assignment with different policies · Supports EtherNet/IP and Modbus TCP protocols for device
- management and monitoring Compatible with PROFINET protocol for transparent data
- transmission
- · Digital inputs for integrating sensors and alarms with IP networks
- Redundant, dual AC power inputs
- · IGMP snooping and GMRP for filtering multicast traffic

- QoS (IEEE 802.1p/1Q and TOS/DiffServ) to increase determinism
- · Port Trunking for optimum bandwidth utilization
- TACACS+, SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- · Access control lists (ACL) increase the flexibility and security of network management
- SNMPv1/v2c/v3 for different levels of network management
- RMON for proactive and efficient network monitoring
- · Bandwidth management to prevent unpredictable network status
- · Lock port function for blocking unauthorized access based on MAC address
- Port mirroring for online debugging
- · Automatic warning by exception through email and relay output



# **Specifications**

Ethernet Interface	
Slot Combination	12 slots for 4-port interface modules (10/100/1000BaseT(X), or PoE+ 10/100/1000BaseT (X), or 100/1000BaseSFP slots) <sup>1</sup>
Input/Output Interface	
Alarm Contact Channels	Relay output with current carrying capacity of 2 A $@$ 30 VDC
Digital Inputs	+13 to +30 V for state 1 -30 to +1 V for state 0 Max. input current: 8 mA
Ethernet Interface	
Standards	IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1X for authentication IEEE 802.3 for 10BaseT IEEE 802.3ab for 1000BaseT(X) IEEE 802.3u for 1000BaseT(X) IEEE 802.3u for 1000BaseT(X) and 100BaseFX IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3af/at for PoE/PoE+ output
Ethernet Software Features	
Management	ARP, Back Pressure Flow Control, BOOTP, DDM, DHCP Option 66/67/82, DHCP Server/ Client, IPv4, LLDP, Port Mirror, RMON, SNMP Inform, SNMPv1/v2c/v3, Syslog, Telnet, TFTP, SMTP, RARP, Flow control
Filter	802.1Q, GMRP, GVRP, IGMP v1/v2/v3, QinQ VLAN
Multicast Routing	DVMRP, PIM-DM, PIM-SM, PIM-SSM
Redundancy Protocols	Link Aggregation, MSTP, RSTP, Turbo Chain, Turbo Ring v1/v2, V-ON
Routing Redundancy	VRRP
Security	Access control list, Broadcast storm protection, HTTPS/SSL, MAB authentication, Sticky MAC, NTP authentication, Port Lock, RADIUS, SSH, TACACS+
Time Management	NTP Server/Client, SNTP
Unicast Routing	OSPF, RIPV1/V2, Static Route
Industrial Protocols	EtherNet/IP, Modbus TCP
МІВ	Bridge MIB, Ethernet-like MIB, MIB-II, P-BRIDGE MIB, Q-BRIDGE MIB, RMON MIB Groups 1, 2, 3, 9, RSTP MIB
Switch Properties	
DRAM	128 MB
Flash	16 MB
IGMP Groups	4096
Jumbo Frame Size	9.6 KB
MAC Table Size	16 K
Max. No. of VLANs	256

1. See the IM-G7000A datasheet for Gigabit Ethernet module product information.



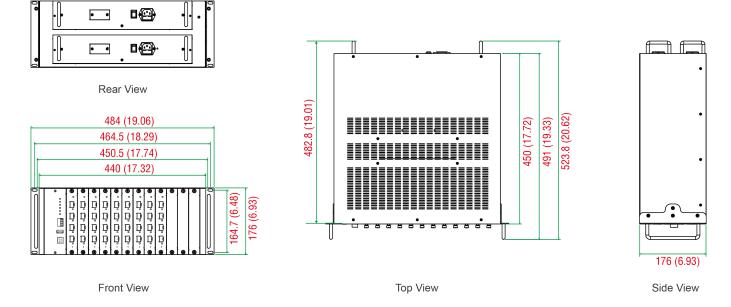
Dealest Buffer Cize	10 Mbito
Packet Buffer Size	12 Mbits
VLAN ID Range	VID 1 to 4094
Priority Queues	8
USB Interface	
Storage Port	USB Type A
Serial Interface	
Console Port	USB-serial console (Type B connector)
Power Parameters	
Input Voltage	110 to 220 VAC, Redundant dual inputs
Operating Voltage	85 to 264 VAC
Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Input Current	0.87/0.51 A @ 110/220 VAC
Physical Characteristics	
IP Rating	IP30
Dimensions	440 x 176 x 523.8 mm (17.32 x 6.93 x 20.62 in)
Weight	12,900 g (28.5 lb)
Installation	Rack mounting
Environmental Limits	
Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
Safety	EN 60950-1, UL 60950-1
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class 1
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 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: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Railway	EN 50121-4
Freefall	IEC 60068-2-32
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6



MTBF	
Time	314,973 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x ICS-G7848A Series switch
Cable	1 x USB type A male to USB type B male
Installation Kit	2 x rack-mounting ear 4 x cap, plastic, for SFP slot
Power Supply	1 x power cord, EU type 1 x power cord, US type
Documentation	1 x document and software CD 1 x warranty card
Note	48 V external power supply, SFP modules and/or modules from the IM-G7000A Module Series need to be purchased separately for use with this product.

## **Dimensions**

Unit: mm (inch)



### **Ordering Information**

Model Name	Layer	10GbE SFP+ Slots	100/1000Base SFP Slots	10/100/1000BaseT(X) Ports RJ45 Connector	Operating Temp.
ICS-G7848A-HV-HV	3	0	Up to 48	Up to 48	-10 to 60°C



# Accessories (sold separately)

INI-67000A Module Series      Gigabit Ethemet interface module with 4100/1000BaseSFP slots, 10 to 60°C operating temperature      INI-67000A-4GKX      Gigabit Ethemet interface module with 410/100/1000BaseT(X) ports, -10 to 60°C operating temperature      INI-67000A-4GKX      Gigabit Ethemet Interface module with 410/100/1000BaseT(X) ports, -10 to 60°C operating temperature      Init 67000A-4GKX      Gigabit Ethemet Interface module with 410/100/1000BaseT(X) ports, -10 to 60°C operating temperature      Init 67000A-4GKX      Gigabit Ethemet Interface module with 410/100/1000BaseT(X) ports, -10 to 60°C operating temperature        Software      Init 6400KA-4POE      Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethemet exitches and routers, 0 to 60°C operating temperature        SFP Modules      SFP module with 1100Base ingle-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature        SFP-1FELC-T      SFP module with 1100Base ingle-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature        SFP-1FELC-T      SFP module with 1100BaseSFP port with LC connector for 10 km transmission, TX 1310 nm, RX 1500 nm, 0 to 85°C operating temperature        SFP-1G10ALC      WDM-type (B0) SFP module with 1100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1500 nm, 0 to 85°C operating temperature        SFP-1G10BLC-T      WDM-type (B0) SFP module with 1100BaseSFP port with LC connector for 20 km transmission; TX 150 nm, RX 1500 nm, 0 to 85°C operating temperature        SFP-1G10BLC-T		
IN-G7000A-4GTX      Gigabit Ethemet Interface module with 4 10/100/1000BaseT(X) ports, -10 to 60°C operating temperature        IN-G7000A-4POE      Gigabit Ethemet PoEs interface module with 4 10/100/1000BaseT(X) ports, -10 to 60°C operating temperature        Software      MXVew      Industrial network management software designed for converged automation networks        Storage Kits      Configuration baskup and restoration tool, firmware upgrade, and log file storage tool for managed Ethemest switches and routers, 0 to 80°C operating temperature        SFP Modules      SPP-IFELLC-T      SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature        SFP-1FEKLC-T      SFP module with 1 100Base multi-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature        SFP-1FEKLC-T      SFP module with 1 100Base single-mode with LC connector for 10 km transmission, 74 to 85°C operating temperature        SFP-1FEKLC-T      SFP module with 1 100Base single-mode with LC connector for 10 km transmission; 7X 1310 nm, RX 1550 nm, 10 to 60°C operating temperature        SFP-1G10BLC      WDM-type (BD) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; 7X 1310 nm, RX 1550 nm, 10 to 80°C operating temperature        SFP-1G10BLC      WDM-type (BD) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; 7X 1310 nm, RX 1550 nm, 10 to 80°C operating temperature        SFP-1G20BLC-T      WDM-type (BD) SFP module with 1 100BaseSFP port with LC conn	IM-G7000A Module Series	
Integrature      Media Competitive        IM-67000A-4PoE      Digsbit Ethemat POE+ interface module with 4 10/100/1000BaseT(0) ports, -10 to 60°C operating temperature        Software      Industrial network management software designed for converged automation networks        Storage Kits      ABC-02-USB      Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethemet switches and routers, 0 to 6°C operating temperature        SFP Modules      SFP-1FELLC-T      SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature        SFP-1FELC-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 40 km transmission, 74 to 85°C operating temperature        SFP-1610ALG      WDM type (BIO) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 40 to 85°C operating temperature        SFP-1610BLG      WDM type (BIO) SFP module with 1 100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 40 to 85°C operating temperature        SFP-1610BLC      WDM type (BIO) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 150 nm, RX 1310 nm, 0 to 80°C operating temperature        SFP-1610BLC      WDM type (BIO) SFP module with 1 100BaseSFP port with LC connector for 20 km transmission; TX 150 nm, RX 130 nm, 0 to 80°C operating te	IM-G7000A-4GSFP	Gigabit Ethernet interface module with 4 100/1000BaseSFP slots, -10 to 60°C operating temperature
temperature        Software        MX/ew      Industrial network management software designed for converged automation networks        Storage Kits      ABC-02-USB      Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, 0 to 6°C operating temperature        SFP Modules      SFP-IFELLC-T      SFP module with 1100Base single-mode with LC connector for 4 km transmission, 40 to 85°C operating temperature        SFP-1FENLC-T      SFP module with 1100Base single-mode with LC connector for 4 km transmission, 40 to 85°C operating temperature        SFP-1FENLC-T      SFP module with 1100Base single-mode with LC connector for 4 km transmission, 40 to 85°C operating temperature        SFP-1FENLC-T      SFP module with 1100Base single-mode with LC connector for 10 km transmission; TX 1310 mm, RX 1580 mm, 10 to 60°C operating temperature        SFP-1G10ALC      WDM-type (BID) SFP module with 1100BaseSFP port with LC connector for 10 km transmission; TX 1300 mm, RX 1310 mm, RX 1300 mm, 40 to 85°C operating temperature        SFP-1G10BLC-T      WDM-type (BID) SFP module with 1100BaseSFP port with LC connector for 20 km transmission; TX 1500 mm, RX 1310 mm, RX 1500 mm, 40 to 85°C operating temperature        SFP-1G20ALC      WDM-type (BID) SFP module with 1100BaseSFP port with LC connector for 20 km transmission; TX 1500 mm, RX 1500 mm, 40 to 85°C operating temperature        SFP-1G20ALC      WDM-type (BID) SFP module with 1100BaseSFP port with LC connector for 20 km trans	IM-G7000A-4GTX	
Mixiew      Industrial network management software designed for converged automation networks        Storage Kits      ABC-02-USB      Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethemet switches and routers, 0 to 60°C operating temperature        SFP Modules      SFP-10600000000000000000000000000000000000	IM-G7000A-4PoE	
Storage Kits      ABC-02-USB      Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, 0 to 60°C operating temperature        SFP Modules      SFP module with 1100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature        SFP-1FELLC-T      SFP module with 1100Base indit-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature        SFP-1FEMLC-T      SFP module with 1100Base indit-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature        SFP-1FESLC-T      SFP module with 1100Base indit-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature        SFP-1G10ALC      WDM-type (BID) SFP module with 1100BaseSFP 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 1100BaseSFP port with LC connector for 10 km transmission; TX 1500 nm, RX 1510 nm, -40 to 85°C operating temperature        SFP-1G10BLC      WDM-type (BID) SFP module with 1100BaseSFP port with LC connector for 20 km transmission; TX 1500 nm, RX 1550 nm, 0 to 60°C operating temperature        SFP-1G20ALC      WDM-type (BID) SFP module with 1100BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature        SFP-1G20ALC      WDM-type (BID) SFP module with 1100BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature <td< td=""><td>Software</td><td></td></td<>	Software	
ABC-02-USB      Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, 0 to 60°C operating temperature        SFP Modules      SFP-IFELLC-T      SFP module with 1100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature        SFP-1FEMLC-T      SFP module with 1100Base single-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature        SFP-1FESLC-T      SFP module with 1100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature        SFP-1G10ALC      WDM-type (BD) SFP module with 1100BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature        SFP-1G10BLC      WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1500 nm, 0 to 60°C operating temperature        SFP-1G10BLC      WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature        SFP-1G10BLC      WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1500 nm, RX 1310 nm, 0 to 60°C operating temperature        SFP-1G20ALC      WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1500 nm, RX 1310 nm, 0 to 60°C operating temperature        SFP-1G20BLC      WDM-type (BD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1510 nm, RX 1500 nm, 0 to 60°C operating temperature <td>MXview</td> <td>Industrial network management software designed for converged automation networks</td>	MXview	Industrial network management software designed for converged automation networks
Ethernet switches and routers, 0 to 60°C operating temperature        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 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 40 km transmission, -40 to 85°C operating temperature        SFP-1610ALC      WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -00 to 80°C operating temperature        SFP-1610ALC-T      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-1610BLC      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-11G10BLC      WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1350 nm, 0 to 80°C operating temperature        SFP-11G20ALC      WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1350 nm, 0 to 80°C operating temperature        SFP-11G20ALC-T      WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1350 nm, 0 to 80°C operating temperature        SFP-11G20ALC-T      WDM-type (BID) SF	Storage Kits	
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 multi-mode with LC connector for 4 km transmission, -40 to 85°C operating temperature        SFP-IFESLC-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, A0 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, 40 to 85°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      YDM-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-1G20ALC      YDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 85°C operating temperature        SFP-1G20ALC      WDM-type (BID) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, nx0 to 85°C operating temperature        <	ABC-02-USB	
operating temperature        SFP-1FEMLC-T      SPF module with 1 100Base single-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, 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 130 nm, RX 1550 nm, RX 1310 nm, 0 to 60°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-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-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-1G20ALC-T      WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connect	SFP Modules	
operating temperature        SFP-1FESLC-T      SPF module with 1 100Base signle-mode with LC connector for 40 km transmission, -40 to 85°C        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 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, 0 to 60°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-1620ALC-T      WDM-type (BiD) 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-1620ALC      WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1350 nm, RX 1310 nm, -40 to 85°C operating temperature        SFP-1620BLC      WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1350 nm, RX 1310 nm, -40 to 85°C operating temperature        SFP-1640ALC      WDM-type (BiD) SFP module with 1 1000BaseSFP port with LC conn	SFP-1FELLC-T	
operating temperatureSFP-1G10ALCWDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperatureSFP-1G10ALC-TWDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperatureSFP-1G10BLCWDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperatureSFP-1G10BLC-TWDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperatureSFP-1G20ALCWDM-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 temperatureSFP-1G20ALC-TWDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperatureSFP-1G20BLCWDM-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 temperatureSFP-1G20BLC-TWDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperatureSFP-1G40ALCWDM-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 temperatureSFP-1G40ALC-TWDM-type (BiD) SFP module with 11000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperatureSFP-1G40ALC-TWDM-type (BiD) SFP module with 11000BaseSFP port with LC connector	SFP-1FEMLC-T	
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1310 nm, RX 1550 nm, -40 to 85°C operating temperatureSFP-1G40BLCWDM-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 temperatureSFP-1G40BLC-TWDM-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 temperatureSFP-1GEZXLCSFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperatureSFP-1GEZXLC-120SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperatureSFP-1GLHLCSFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperatureSFP-1GLHLC-TSFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature	SFP-1G40ALC	
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1550 nm, RX 1310 nm, -40 to 85°C operating temperatureSFP-1GEZXLCSFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperatureSFP-1GEZXLC-120SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperatureSFP-1GLHLCSFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperatureSFP-1GLHLC-TSFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating	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	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	SFP-1GEZXLC	
SFP-1GLHLC-T    SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating	SFP-1GEZXLC-120	
	SFP-1GLHLC	
	SFP-1GLHLC-T	



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
SFP-10GERLC	SFP+ module with 1 10GBase-ER port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-10GLRLC	SFP+ module with 1 10GBase-LR port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-10GSRLC	SFP+ module with 1 10GBase-SR port with LC connector for 33 m transmission, 0 to 60°C operating temperature
Power Cords	
PWC-C13AU-3B-183	Power cord with Australian (AU) plug, 1.83 m
PWC-C13CN-3B-183	Power cord with three-prong China (CN) plug, 1.83 m
PWC-C13EU-3B-183	Power cord with Continental Europe (EU) plug, 1.83 m
PWC-C13UK-3B-183	Power cord with United Kingdom (UK) plug, 1.83 m
PWC-C13US-3B-183	Power cord with United States (US) plug, 1.83 m
PWC-C7AU-2B-183	Power cord with Australian (AU) plug, 2.5A/250V, 1.83 m
PWC-C7EU-2B-183	Power cord with Continental Europe (EU) plug, 2.5A/250V, 1.83 m
PWC-C7UK-2B-183	Power cord with United Kingdom (UK) plug, 2.5A/250V, 1.83 m
PWC-C7US-2B-183	Power cord with United States (US) plug, 10A/125V, 1.83 m

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