ICS-G7526A/G7528A/G7826A/G7828A Series

24G+2 10GbE/24G+4 10GbE-port Layer 2/Layer 3 full Gigabit managed Ethernet switches

Introduction

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The ICS-G7526A/G7528A/G7826A/G7828A series full Gigabit backbone switches are equipped with 24 Gigabit Ethernet ports plus up to 4 10 Gigabit Ethernet ports, and the ICS-G7826A/G7828A support Layer 3 routing functionality to facilitate the deployment of applications across networks, making them ideal for large scale industrial networks. The ICS-G7526A/G7528A/G7826A/G7828A’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 switches support the Turbo Ring, Turbo Chain, and RSTP/STP redundancy protocols, and are fanless and come with an isolated redundant power supply to increase system reliability and the availability of your network backbone.

Features and Benefits

- Layer 3 switching functionality to move data and information across networks (ICS-G7800A series)
- Command line interface (CLI) for quickly configuring major managed functions
- Supports advanced VLAN capability with Q-in-Q tagging
- Software based IEEE 1588 PTPv2 (Precision Time Protocol) for time synchronization of networks
- DHCP Option 82 for IP address assignment with different policies
- Support EtherNet/IP and Modbus/TCP protocols for device management and monitoring
- Compatible with EtherNet/IP and PROFINET protocols for transparent data transmission
- Redundant Gigabit Turbo Ring and Turbo Chain (recovery time < 50 ms @ 250 switches), RSTP/STP, and MSTP for network redundancy
- IGMP snooping and GMRP for filtering multicast traffic
- IEEE 802.1Q VLAN and GVRP protocol to ease network planning
- 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 (ICS-G7800A series)
- 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 function for blocking unauthorized access based on MAC address
- Port mirroring for online debugging
- Automatic warning by exception through e-mail, relay output
- Digital inputs for integrating sensors and alarms with IP networks
- Redundant, dual AC power inputs
Specifications

Technology
Standards:
- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseT(X) and 100BaseFX
- IEEE 802.3ab for 1000BaseT(X)
- IEEE 802.3z for 1000BaseSX/LX/LHX/ZX
- IEEE 802.3ae for 10 Gigabit Ethernet
- IEEE 802.3x for Flow Control
- IEEE 802.1D-2004 for Spanning Tree Protocol
- IEEE 802.1w for Rapid Spanning Tree Protocol
- IEEE 802.1s for Multiple Spanning Tree Protocol
- 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

Software Features
Management:
- IPv4, SNMP v1/v2c/v3, LLDP, Port Mirror, DDM, RMON, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SMTP, RARP, Telnet, Syslog, SNMP Inform, Flow Control, Back Pressure Flow Control

Filter:
- 802.1Q VLAN, Q-in-Q VLAN, GVRP, IGMP v1/v2/v3, GMRP

Redundancy Protocols:
- STP, RSTP, MSTP, Turbo Ring v1/v2, Turbo Chain, Link Aggregation

Security:
- RADIUS, TACACS+, SSL, SSH, Broadcast Storm Protection, Port Lock, Access Control Lists (ICS-G7800A series only)

Unicast Routing:
- Static Routing, RIPV1/V2, OSPF (ICS-G7800A series)

Multicast Routing:
- DVMRP, PIM-DM, PIM-SM, PIM-SSM (ICS-G7800A series)

Time Management:
- SNTP, NTP Server/Client, IEEE 1588v2 PTP (software-based)

Industrial Protocols:
- EtherNet/IP, Modbus/TCP, PROFINET

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

Routing Redundancy:
- VRRP (ICS-G7800A series)

Switch Properties
Priority Queues: 8
Max. Number of VLANs: 256
VLAN ID Range: VID 1 to 4094
IGMP Groups: 4096
MAC Table Size: 16 K
Packet Buffer Size: 12 Mbit
DRAM Size: 128 MB
Flash Size: 16 MB
Jumbo Frame Size: 9.6 KB

Interface
Gigabit Ethernet: 10/100/1000BaseT(X) or 100/1000BaseSFP slot
10 Gigabit Ethernet: 10GBe SFP+ slot
Console Port: USB-serial console (Type B connector)
Storage Port: USB storage (Type A connector for ABC-02-USB)
Alarm Contact:
- relay output with current carrying capacity of 2 A @ 30 VDC
- +13 to +30 V for state “1”
- -30 to +1 V for state “0”
- Max. input current: 8 mA

Power Requirements
Input Voltage: 110 to 220 VAC
Operating Voltage: 85 to 264 VAC
Input Current:
- ICS-G7526A/G7826A: Max. 0.83/0.47 A @ 110/220 VAC
- ICS-G7528A/G7828A: Max. 0.99/0.65 A @ 110/220 VAC
Overload Current Protection: Present
Reverse Polarity Protection: Present

Physical Characteristics
IP Rating: IP30 protection
Dimensions: 440 x 44 x 386.9 mm (17.32 x 1.73 x 15.23 in)
Weight:
- ICS-G7526A/G7826A: 5.3 kg (11.69 lb)
- ICS-G7528A/G7828A: 5.5 kg (12.14 lb)
Installation: 19-inch rack mounting

Environmental Limits
Operating Temperature: -10 to 60°C (-14 to 140°F)
Storage Temperature: -40 to 85°C (~40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications
Safety: UL 60950-1, EN 60950-1
EMC: EN 55022/24
EMI: CISPR 22, FCC Part 15B Class A
EMS:
- IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV
- IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m
- IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV
- IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV
- IEC 61000-4-6 CS: Signal: 10 V
- IEC 61000-4-8
Rail Traffic: EN 50121-4
Shock: IEC 60068-2-27
Freefall: IEC 60068-2-32
Vibration: IEC 60068-2-6
Note: Please check Moxa’s website for the most up-to-date certification status.

MTBF (mean time between failures)
Time:
- ICS-G7526A: 419,734 hrs
- ICS-G7528A: 403,574 hrs
- ICS-G7826A: 428,165 hrs
- ICS-G7828A: 411,819 hrs

Standard: Telcordia (Bellcore), GB

Warranty
Warranty Period: 5 years
Details: See www.moxa.com/warranty
Ordering Information

### Available Models

<table>
<thead>
<tr>
<th>Standard Temperature</th>
<th>Port Interface</th>
<th>Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>(-10 to 60°C)</td>
<td>Gigabit Ethernet</td>
<td>10 Gigabit Ethernet</td>
</tr>
<tr>
<td></td>
<td>10/100/1000BaseT(X)</td>
<td>10/100/1000BaseSFP*</td>
</tr>
</tbody>
</table>

**ICS-G7526A/G7528A Series Layer 2 Switches**

- ICS-G7526A-4GTXSFP-2XG-HV-HV
  - 20 – 4 2 1 1
- ICS-G7526A-8GSPF-4GTXSFP-2XG-HV-HV
  - 12 8 4 2 1 1
- ICS-G7526A-20GSPF-4GTXSFP-2XG-HV-HV
  - – 20 4 2 1 1
- ICS-G7528A-4GTXSFP-4XG-HV-HV
  - 20 – 4 4 1 1
- ICS-G7528A-8GSPF-4GTXSFP-4XG-HV-HV
  - 12 8 4 4 1 1
- ICS-G7528A-20GSPF-4GTXSFP-4XG-HV-HV
  - – 20 4 4 1 1

**ICS-G7826A/G7828A Series Layer 3 Switches**

- ICS-G7826A-4GTXSFP-2XG-HV-HV
  - 20 – 4 2 1 1
- ICS-G7826A-8GSPF-4GTXSFP-2XG-HV-HV
  - 12 8 4 2 1 1
- ICS-G7826A-20GSPF-4GTXSFP-2XG-HV-HV
  - – 20 4 2 1 1
- ICS-G7828A-4GTXSFP-4XG-HV-HV
  - 20 – 4 4 1 1
- ICS-G7828A-8GSPF-4GTXSFP-4XG-HV-HV
  - 12 8 4 4 1 1
- ICS-G7828A-20GSPF-4GTXSFP-4XG-HV-HV
  - – 20 4 4 1 1

**Note:** The ICS-G7526A/G7528A/G7826A/G7828A series supports 10GbE SFP+ and 100/1000BaseSFP slots. See the SFP-10G, SFP-1G, SFP-1G Copper, and SFP-1FE data-sheets for SFP module product information.

### Optional Accessories (can be purchased separately)

- **MXview**: Moxa industrial network management software with 50, 100, 250, 500, 1000, or 2000 nodes.
- **EDS-SNMP OPC Server Pro**: OPC server software that works with all SNMP devices.
- **ABC-02-USB**: Configuration backup and restoration tool for managed Ethernet switches, 0 to 60°C operating temperature.
- **Power Cords**: See Appendix A for details.

### Package Checklist

- ICS-G7526A, ICS-G7528A, ICS-G7826A, or ICS-G7828A switch
- USB cable (Type A male to Type B male)
- 2 power cords (US type x 1, EU type x 1)
- Protective caps for unused ports
- 2 rackmount ears
- Documentation and software CD
- Hardware installation guide (printed)
- Warranty card
SFP-10G Series

1-port 10 Gigabit Ethernet SFP+ modules

- Digital Diagnostic Monitor Function
- Compliant with IEEE 802.3ae
- SFF-8432 SFP+ MSA compliant
- Hot pluggable LC duplex connector
- Class 1 Laser International Safety Standard IEC 825 compliant
- RoHS compliant

### Specifications

#### Interface
- Connectors: Duplex LC Connector
- 10G Ethernet Ports: 1

#### Optical Fiber

<table>
<thead>
<tr>
<th>10G Ethernet SFP</th>
<th>SFP-SR</th>
<th>SFP-LR</th>
<th>SFP-ER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transceiver Type</td>
<td>Multi-Mode</td>
<td>Single-Mode</td>
<td>Single-Mode</td>
</tr>
<tr>
<td>Fiber Cable Type</td>
<td>OM1</td>
<td>OM3</td>
<td>6.652</td>
</tr>
<tr>
<td>Typical Distance</td>
<td>33 m</td>
<td>300 m</td>
<td>10 km</td>
</tr>
</tbody>
</table>

#### Wave-length

<table>
<thead>
<tr>
<th>Wave-length</th>
<th>Typical (nm)</th>
<th>TX Range (nm)</th>
<th>RX Range (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical (nm)</td>
<td>850</td>
<td>840 to 860</td>
<td>840 to 860</td>
</tr>
<tr>
<td>TX Range (nm)</td>
<td>1310</td>
<td>1260 to 1355</td>
<td>1260 to 1600</td>
</tr>
<tr>
<td>RX Range (nm)</td>
<td>1550</td>
<td>1530 to 1565</td>
<td>1260 to 1600</td>
</tr>
</tbody>
</table>

#### Optical Power

| Link Budget (dB) | 1.6 | 2.6 | 6.2 | 10.9 |

Note: When connecting the SFP-ER, we recommend using an attenuator to prevent damaged caused by excessive optical power.

### Power Requirements

- Power Consumption: Max. 1.5 W

### Environmental Limits

- Operating Temperature: 0 to 60°C (32 to 176°F)
- Storage Temperature: -40 to 85°C (-40 to 185°F)
- Ambient Relative Humidity: 5 to 95% (non-condensing)

### Standards and Certifications

- Safety: CE, FCC, TÜV, UL 60950-1
- Warranty Period: 5 years
- Details: See www.moxa.com/warranty

### Available Models

- SFP-10GSRLC: SFP+ module with 1 10GBase-SR port for 33 m transmission, LC connector, 0 to 60°C operating temperature
- SFP-10GLRLC: SFP+ module with 1 10GBase-LR port for 10 km transmission, LC connector, 0 to 60°C operating temperature
- SFP-10GERLC: SFP+ module with 1 10GBase-ER port for 40 km transmission, LC connector, 0 to 60°C operating temperature

### Package Checklist

- SFP-10G module
- Warranty card

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www.moxa.com
SFP-1G Series

1-port Gigabit Ethernet SFP modules

- Digital Diagnostic Monitor Function
- -40 to 85°C operating temperature range (T models)
- IEEE 802.3z compliant
- Differential LVPECL inputs and outputs
- TTL signal detect indicator
- Hot pluggable LC duplex connector
- Class 1 laser product, complies with EN 60825-1

Specifications

Interface

Ethernet Ports: 1
Connectors: Duplex LC Connector or Simplex LC Connector (WDM-type only)

Optical Fiber

<table>
<thead>
<tr>
<th>Transceiver Type</th>
<th>SFP-SX</th>
<th>SFP-LSX</th>
<th>SFP-LX</th>
<th>SFP-LH</th>
<th>SFP-LHX</th>
<th>SFP-ZX</th>
<th>SFP-EZX</th>
<th>SFP-EZX-120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Distance</td>
<td>300 m</td>
<td>550 m</td>
<td>1 km</td>
<td>2 km</td>
<td>10 km</td>
<td>30 km</td>
<td>40 km</td>
<td>80 km</td>
</tr>
</tbody>
</table>

Note: When connecting the SFP-LHX, ZX, EZX, or EZX-120, we recommended using an attenuator to prevent the transceiver from being damaged by excessive optical power.

<table>
<thead>
<tr>
<th>Transceiver Type</th>
<th>WDM Gigabit Ethernet SFP</th>
<th>SFP-10A</th>
<th>SFP-10B</th>
<th>SFP-20A</th>
<th>SFP-20B</th>
<th>SFP-40A</th>
<th>SFP-40B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Cable Type</td>
<td>Single-Mode</td>
<td>G.652</td>
<td>G.652</td>
<td>G.652</td>
<td>G.652</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Typical Distance</td>
<td>10 km</td>
<td>20 km</td>
<td>40 km</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: WDM-type SFP modules must be used in pairs (e.g., SFP-1G10ALC and SFP-1G10BLC)

Typical Distance: To reach the typical distance of specified fiber transceiver, please refer to formula: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).
Power Requirements
Power Consumption: Max. 1 W

Environmental Limits
Operating Temperature:
Standard Models: 0 to 60°C (32 to 140°F)
Wide 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)

Standards and Certifications
Safety: CE, FCC, TÜV (EN 60825), UL 60950-1
Marine: DNV, GL

Dimensions

<table>
<thead>
<tr>
<th>SFP-1G Series</th>
<th>SFP-1G Series (WDM Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top View</td>
<td>Top View</td>
</tr>
<tr>
<td>Side View</td>
<td>Side View</td>
</tr>
<tr>
<td>Rear View</td>
<td>Rear View</td>
</tr>
</tbody>
</table>

Ordering Information

Gigabit Ethernet SFP Models

<table>
<thead>
<tr>
<th>Standard Temperature Models (0 to 60°C)</th>
<th>Wide Temperature Models (-40 to 85°C)</th>
<th>Transceiver Type</th>
<th>Typical Distance</th>
<th>WDM Gigabit Ethernet SFP Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFP-1GSXLCL</td>
<td>SFP-1GSXLC-T</td>
<td>Multi-Mode</td>
<td>300/550 m</td>
<td>SFP-1G10ALC</td>
</tr>
<tr>
<td>SFP-1GLSXLCL</td>
<td>SFP-1GLSXLCL-T</td>
<td>Multi-Mode</td>
<td>1/2 km</td>
<td>SFP-1G10BLC</td>
</tr>
<tr>
<td>SFP-1GLXLCL</td>
<td>SFP-1GLXLCL-T</td>
<td>Single-Mode</td>
<td>10 km</td>
<td>SFP-1G20ALC</td>
</tr>
<tr>
<td>SFP-1GHLXLCL</td>
<td>SFP-1GHLXLCL-T</td>
<td>Single-Mode</td>
<td>30 km</td>
<td>SFP-1G20BLC</td>
</tr>
<tr>
<td>SFP-1GLHXLCL</td>
<td>SFP-1GLHXLCL-T</td>
<td>Single-Mode</td>
<td>40 km</td>
<td>SFP-1G40ALC</td>
</tr>
<tr>
<td>SFP-1GZXLCL</td>
<td>SFP-1GZXLCL-T</td>
<td>Single-Mode</td>
<td>80 km</td>
<td>SFP-1G40BLC</td>
</tr>
<tr>
<td>SFP-1GEXXLCL</td>
<td>–</td>
<td>Single-Mode</td>
<td>110 km</td>
<td>–</td>
</tr>
<tr>
<td>SFP-1GEXZXLCL-129</td>
<td>–</td>
<td>Single-Mode</td>
<td>120 km</td>
<td>–</td>
</tr>
</tbody>
</table>

WDM Gigabit Ethernet SFP Models

<table>
<thead>
<tr>
<th>Standard Temperature (0 to 60°C)</th>
<th>Wide Temperature (-40 to 85°C)</th>
<th>Transceiver Type</th>
<th>Typical Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFP-1G10ALC</td>
<td>SFP-1G10ALC-T</td>
<td>Single-Mode</td>
<td>10 km</td>
</tr>
<tr>
<td>SFP-1G10BLC</td>
<td>SFP-1G10BLC-T</td>
<td>Single-Mode</td>
<td>10 km</td>
</tr>
<tr>
<td>SFP-1G20ALC</td>
<td>SFP-1G20ALC-T</td>
<td>Single-Mode</td>
<td>20 km</td>
</tr>
<tr>
<td>SFP-1G20BLC</td>
<td>SFP-1G20BLC-T</td>
<td>Single-Mode</td>
<td>20 km</td>
</tr>
<tr>
<td>SFP-1G40ALC</td>
<td>SFP-1G40ALC-T</td>
<td>Single-Mode</td>
<td>40 km</td>
</tr>
<tr>
<td>SFP-1G40BLC</td>
<td>SFP-1G40BLC-T</td>
<td>Single-Mode</td>
<td>40 km</td>
</tr>
</tbody>
</table>

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

Package Checklist
- SFP-1G module
- Warranty card
SFP-1G Copper Series

1-port Gigabit Ethernet copper SFP modules

- Compliant with IEEE 802.3.2002
- Fixed 1000 BASE-T speed
- Hot pluggable RJ45 connector
- TTL signal detection (RX los)
- RoHS compliant and lead free

Interface
- Connectors: RJ45
- The port can not be used for Turbo Ring v1, Turbo Ring v2, and Turbo Chain.
- Gigabit Ethernet Ports: 1

Power Requirements
- Power Consumption: Max. 1.2 W

Environmental Limits
- Operating Temperature: -40 to 75°C (-40 to 167°F)
- Storage Temperature: -40 to 85°C (-40 to 185°F)
- Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications
- Safety: CE, FCC, TÜV, UL 60950-1
- Marine: DNV, GL

Warranty
- Warranty Period: 5 years
- Details: See www.moxa.com/warranty

Available Models
- SFP-1GTXRJ45-T: SFP module with fixed 1000BaseT port, RJ45 connector, -40 to 75°C operating temperature

Package Checklist
- SFP-1G copper module
- Warranty card
SFP-1FE Series

1-port Fast Ethernet SFP modules

- Digital Diagnostic Monitor Function
- IEEE 802.3u compliant
- Differential PECL inputs and outputs
- TTL signal detect indicator
- Hot pluggable LC duplex connector
- Class 1 laser product; complies with EN 60825-1

**Specifications**

**Interface**
- Ethernet Ports: 1
- Connectors: Duplex LC Connector

**Optical Fiber**

<table>
<thead>
<tr>
<th>Transceiver Type</th>
<th>Fast Ethernet SFP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SFP-M</td>
</tr>
<tr>
<td>Fiber Cable Type</td>
<td>OM1/OM2</td>
</tr>
<tr>
<td>Typical Distance</td>
<td>2 km</td>
</tr>
</tbody>
</table>

**Wave-length**

<table>
<thead>
<tr>
<th>Wave-length</th>
<th>TX Range (nm)</th>
<th>RX Range (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical (nm)</td>
<td>1310</td>
<td>1310</td>
</tr>
<tr>
<td>RX Range (nm)</td>
<td>1280 to 1340</td>
<td>1280 to 1340</td>
</tr>
<tr>
<td>RX Range (nm)</td>
<td>1100 to 1650</td>
<td>1100 to 1600</td>
</tr>
</tbody>
</table>

**Optical Power**

<table>
<thead>
<tr>
<th>Optical Power</th>
<th>TX Range (dBm)</th>
<th>RX Range (dBm)</th>
<th>Link Budget (dB)</th>
<th>Dispersion Penalty (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-8 to -18</td>
<td>0 to -5</td>
<td>14</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>-3 to -34</td>
<td>-3 to -34</td>
<td>29</td>
<td>3</td>
</tr>
</tbody>
</table>

**Operating Temperature:** -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)

**Standards and Certifications**
- Safety: CE, FCC, TÜV, UL 60950-1
- Marine: DNV, GL

**Warranty**
- Warranty Period: 5 years
- Details: See www.moxa.com/warranty

**Power Requirements**
- Power Consumption: Max. 1 W

**Environmental Limits**
- Operating Temperature: -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)

**Dimensions**

- Unit: mm (inch)

**Ordering Information**

<table>
<thead>
<tr>
<th>Available Models</th>
<th>Port Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFP-1FEMLC-T</td>
<td>100BaseFX, Multi-Mode, LC Connector, 4 km</td>
</tr>
<tr>
<td>SFP-1FESLC-T</td>
<td>100BaseFX, Single-Mode, LC Connector, 40 km</td>
</tr>
<tr>
<td>SFP-1FELLC-T</td>
<td>100BaseFX, Single-Mode, LC Connector, 80 km</td>
</tr>
</tbody>
</table>

**Package Checklist**
- SFP-1FE module
- Warranty card

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