



SINGLE-PORT SFP MINI-PHYSICAL INTERFACE MODULE

Product Overview

The Juniper Networks optional, single-port, small form-factor pluggable transceiver (SFP) Mini-PIM provides Gigabit Ethernet connectivity for the Juniper Networks SSG20 Secure Services Gateway, increasing flexibility and operational ease.

Product Description

The Juniper Networks® single-port SFP Mini-PIM for the SSG20 Secure Services Gateway complements the five on-board 10/100 Ethernet interfaces with expanded LAN or WAN connectivity. It offers support for a variety of transceiver types including short-wavelength for Gigabit Ethernet (GbE) connectivity over multimode fiber, long-wavelength for GbE connectivity over multimode and single-mode fiber, 100BASE-FX for Fast Ethernet connectivity over multimode and single-mode fiber, and 1000BASE-T for GbE connectivity over twisted pair.

Features and Benefits

The Juniper Networks single-port serial Mini-PIM provides the following features and benefits:

Table 1: Single-Port SFP Mini-PIM for SSG20 Features and Benefits

FEATURE	FEATURE DESCRIPTION	BENEFIT
GbE or fast ethernet connectivity	Single-port SFP Mini-PIM provides support for a variety of transceiver types including: <ul style="list-style-type: none"> • 1000BASE-T SFP • GbE SFP, LC connector, LX transceiver • GbE SFP, LC connector, SX transceiver • 100BASE-FX 	Module can be used in copper or optical environments, providing maximum flexibility when upgrading from an existing infrastructure to Metro Ethernet
Hot insertion and removal of transceivers	Transceivers installed and removed without powering down the SSG20	Reduces downtime associated with moves, changes, and network upgrades

Product Options

The Juniper Networks single-port SFP Mini-PIM for the SSG20 platform provides support for a variety of transceiver options.

Table 2: Transceiver Options

TRANSCEIVER PART NUMBER	OPTION DESCRIPTION
JX-SFP-1GE-LX	SFP 1000BASE-LX Gigabit Optical Transceiver
JX-SFP-1GE-SX	SFP 1000BASE-SX Gigabit Optical Transceiver
JX-SFP-100BASE-FX	SFP FE Optical Transceiver
JX-SFP-1000BASE-T	SFP GE Copper Transceiver

Specifications

Supported Platforms

As with all Juniper Networks Mini-PIMs, the single port SFP Mini-PIM is supported only on the SSG20 platform. Standard-form-factor SFP universal PIMs (uPIMs) are available for the SSG140 and SSG500 line.

Connector

- One SFP cage, SFP transceivers sold separately

MDI/MDI-X

- Medium-dependent interface (MDI)

Ethernet Speeds

- 1 Gbps or 100 Mbps

Duplex

- Auto-negotiation or manual setting for duplex

Module Slots

- Module slots required

LEDs

- Link and activity

Management

- Telnet/Console/Web
- Remote and local configuration, monitoring, and troubleshooting

Dimensions (W x H x D) and Weight

- 3.75 x 0.8 x 5.75 in (9.5 x 2 x 14.5 cm)
- 0.18 lb (81.6 g)

Environmental

- Operating temperature: 0 to 40° C
- Storage temperature: -40 to 70° C
- Relative humidity: 5 to 90% noncondensing

Standards and Compliance

Safety

- CAN/CSA-C22.2 No. 60950-1-03 - UL 60950-1 Safety of Information Technology Equipment
- EN 60950-1 Safety of Information Technology Equipment

EMC (Emissions)

- FCC Part 15 Class B
- EN 55022 Class B
- AS/NZS CISPR 22, Class B
- VCCI Class B

Immunity

- EN-61000-4-2 ESD
- EN-61000-4-3 Radiated Immunity
- EN-61000-4-4 EFT
- EN-61000-4-5 Surge
- EN-61000-4-6 Low Frequency Common Immunity

European Telecommunications Standardization Institute (ETSI)

- ETSI EN-300386-2: Telecommunication Network Equipment Electromagnetic Compatibility Requirements
- IEEE 802.3

Performance-Enabling Services and Support

Juniper Networks is the leader in performance-enabling services and support, which are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to bring revenue-generating capabilities online faster so you can realize bigger productivity gains, faster rollouts of new business models and ventures, and greater market reach, while generating higher levels of customer satisfaction. At the same time, Juniper Networks ensures operational excellence by optimizing your network to maintain required levels of performance, reliability, and availability. For more details, please visit www.juniper.net/products-services.

Ordering Information

SFP Mini-PIM and Related Part Numbers

PART NUMBER	DESCRIPTION
JXM-1SFP-S	1-port Fiber Gigabit Ethernet Mini-PIM, transceivers sold separately (spare)
JX-SFP-1GE-LX	SFP 1000BASE-LX Gigabit Optical Transceiver
JX-SFP-1GE-SX	SFP 1000BASE-SX Gigabit Optical Transceiver
JX-SFP-100BASE-FX	SFP FE Optical Transceiver
JX-SFP-1000BASE-T	SFP GE Copper Transceiver

Operating System Versions

PART NUMBER	MINIMUM VERSION
JXM-1SFP-S	ScreenOS 6.0

About Juniper Networks

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