

# SRX-XFP-10GE-SR <sup>(EOL)</sup>

Part number: 740-014289

## Optics Overview

Juniper Networks offers a complete portfolio of modular and fixed-chassis routers and switches for both WAN and data center networks. These solutions span Juniper’s MX-Series Universal Routing Platform and PTX-Series Packet Transport Routers to EX-Series Ethernet Switches and QFX-Series Data Center Switches among others. Depending on deployment scenarios, Juniper’s platforms support different pluggable optic modules that can be selected based on speed, distance, form-factor, and wavelength among other relevant attributes.

## Additional Resources

### Hardware Compatibility Tool

HCT contains a regularly updated database of Juniper’s transceivers, DACs, and AOCs along with information regarding compatibility with Juniper’s platforms and interface modules.

<https://apps.juniper.net/hct/home/>

## Product Description

10GE short reach multi-mode pluggable interface

## Overview

Part Number	740-014289
Speed	10 Gigabit Ethernet
Breakout Capable	No
Transceiver Type	XFP
Product Type	Optical Transceiver
Connector	Duplex LC
Monitoring Available	—
Digital Optical Monitoring	—

**Note:**

- Monitoring Available - Can measure received optical power and display in CLI.
- Digital Optical Monitoring - Full support for SFF-8636.
- Common Optic - The common optics product line provides competitively priced single-SKU optics offerings for use across Juniper routing, switching, and security platforms.

## Specifications

### Standard: 10GBASE-SR

Signaling rate, each lane	10 Gbps	
Transmitter fibers	Dual	
Transmitter wavelengths (range)	850 nm	
Transmitter output power, each lane (minimum)	-7.3 dBm	
Transmitter output power, each lane (maximum)	-1.3 dBm	
Receiver input power, each lane (minimum)	-11.1 dBm	
Receiver input power, each lane (maximum)	-1 dBm	
Cable type	MMF	
Core size/cladding	62.5/125 $\mu$ m 50/125 $\mu$ m 50/125 $\mu$ m	62.5/125 $\mu$ m 50/125 $\mu$ m
Fiber grade	FDDI - OM3	OM1 OM2
Effective modal bandwidth	160 MHz x km 400 MHz x km 1500 MHz x km	200 MHz x km 500 MHz x km
Distance	26 m 66 m 300 m	33 m 82 m
Maximum Power consumption (W)	1 W	
Operating Temperature (range)	0° C to 70° C	
Storage temperature	-40° C to 85° C	

## Supported Platforms

Platform	Introduced Release	Additional Information
Security		
SRX1400		
SRX3400		
SRX3600		
SRX5400		
SRX5600		
SRX5800		
Switching		
EX4200	Junos OS 9.0R2	EX4200-24F-S and EX4200-48T-S switches—Junos OS for EX Series switches, Release 12.3R4 or later

## Supported Interface Modules

### I/O cards (IOCs)

Name	Description	Platforms and Introduced Releases	
10 Gigabit Ethernet			
SRX-IOC-4XGE-XFP <sup>(EOL)</sup>	Port module with four 10-Gigabit Ethernet XFP ports	SRX5600 Junos OS 10.2R1	SRX5800 Junos OS 10.2R1
SRX3K-2XGE-XFP	2-port Ethernet XFP IOC for SRX3400, SRX3600, and SRX1400	SRX1400 Junos OS 10.4R1  SRX3600 Junos OS 9.4R1	SRX3400 Junos OS 9.4R1
SRX5K-4XGE-XFP <sup>(EOL)</sup>	I/O card with four 10-Gigabit Ethernet XFP ports	SRX5600 Junos OS 9.2R1	SRX5800 Junos OS 9.2R1

## Why buy optics from Juniper?

There is value in choosing Juniper over 3<sup>rd</sup> party optics

### ✓ Full testing, validation, and JTAC support for Juniper optics

- Power, Electrical, and Management interfaces tested at the system level.
- Extended temperature and functional testing in DVT chamber using fully loaded systems.
- Full software integration into JUNOS/EVO for seamless part recognition, functionality, and telemetry.
- Latest qualification status and optics specifications published on [Hardware Compatibility Tool](#).

### ✓ Single-source provider for 1G to 400G on a variety of optical technologies

- Juniper's optics portfolio is maintained and constantly refreshed based on vendor availability.
- Automatic supply chain diversity and supply continuity - multiple optics suppliers fulfilled through Juniper.

### ✓ Rigorous evaluation of optical vendors

- Juniper ensures uniformity across all vendors by standardizing P-Specs for management, specs, and logs.
- Vendors are scored based on engineering and supply-chain analysis.
- Factory audits and critical component evaluation (Ex. Who is supplying the laser?).

## Aren't 3<sup>rd</sup> party optics the same?

Optics may be a commodity, but some things are too good to be true

### × Juniper does not Provide JTAC support for 3<sup>rd</sup> party optics

- JTAC will only assist with host-related issues unrelated to the use of 3<sup>rd</sup> party optics.

### × Not all optics are the same - standards compliance does not guarantee quality or performance

- Third-party providers lack system-level knowledge and testing.
- No guarantee of vendor reliability or accountability.

### × Newer technologies (ex. Coherent 400G ZR/ZR+) are complex and not simply plug-and-play

- Significant software integration necessary to enable full functionality, management, and telemetry.
- Use of unqualified 3<sup>rd</sup> party high-power optics can damage the host equipment.

### × Third-party providers simply can't scale

- Incomplete solution offerings and fast turnaround times only for limited quantities.

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