

# Optic Modules

## Product Description

Juniper Networks® has platforms ranging from the Juniper Networks CTP Series Circuit to Packet Platforms, BX Series Multi-Access Gateways, E Series Broadband Services Routers, M Series Multiservice Edge Routers, MX Series 3D Universal Edge Routers, to the T Series Core Routers. These platforms support multiple interface types and technologies such as Ethernet, ATM, and SONET. Depending on the deployment scenario, they support different pluggable optic modules that can be selected based on distance, form factor, and wavelength. This datasheet is intended to guide the user through the various options available when choosing an optic module for a given platform depending on the architecture.

## Features and Benefits

The following table lists the different pluggable optic modules and supported platforms, along with the technical specifications for each.

Table 1: Optic Modules Matrix

SKU	Description	Platforms	Interface Type	Form Factor	Standard	λ (TX) (nm)	λ (RX) (nm)	Media	Cable	Max Reach
SFP-IGE-LX	SFP 1000BASE-LX Gigabit Ethernet optic module.	M7i, M10i, M40e, M120, M320, MX240, MX480, MX960, BX7000, T320, T640, SRX3400, SRX3600, SRX5600, SRX5800	GbE	SFP	1000BASE-LX	1310		SMF	9/125	10 km
								MMF	50/125	550 m
									62.5/125	550 m
SFP-IGE-SX	SFP 1000BASE-SX Gigabit Ethernet optic module.	M7i, M10i, M40e, M120, M320, MX240, MX480, MX960, BX7000, T320, T640, SRX3400, SRX3600, SRX5600, SRX5800	GbE	SFP	1000BASE-SX	850		MMF	50/125	550 m
									62.5/125	275 m
SFP-IGE-T	SFP 1000BASE-T Gigabit Ethernet optic module (uses Cat 5 cable).	M7i, M10i, M40e, M120, M320, MX240, MX480, MX960, BX7000, T320, T640, SRX3400, SRX3600, SRX5600, SRX5800	GbE	SFP	1000BASE-T			Copper	4 twisted pair, Category 5 shielded	100 m

SFP (form factor) = small form-factor pluggable transceiver

SMF (media) = single-mode fiber-optic

MMF (media) = multimode fiber-optic

XFP (form factor) = 10-gigabit small form-factor pluggable transceiver

## Ordering Information

The SKU and the platforms support are listed in the table above.

## About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at **[www.juniper.net](http://www.juniper.net)**.

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