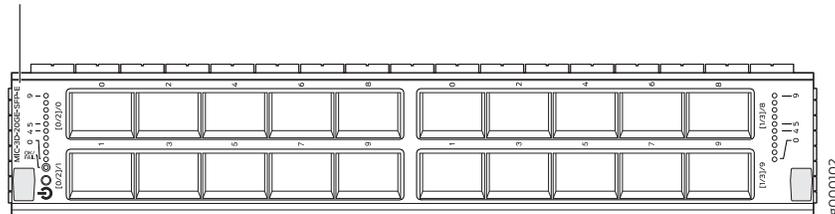


Gigabit Ethernet MIC with SFP (E)

Figure 14: 20-Port Gigabit Ethernet MIC with SFP (E)

MIC-3D-20GE-SFP-E



Software release

- Junos 13.2R2 and later

For information on which MPCs support this MIC, see [“MIC/MPC Compatibility” on page 26](#). For information on which MICs are supported on MX Series routers, see [“MICs Supported by MX Series Routers” on page 18](#).

Description

- 20 Gigabit Ethernet ports
- Power requirement: 0.77 A @ 48 V (37 W)
- Weight: 1.2 lb (0.54 kg)
- Model number: MIC-3D-20GE-SFP-E
- Name in the CLI: **3D 20x 1GE(LAN)-E,SFP**

Hardware features

- High-performance throughput on each port at speeds up to 1 Gbps
- Auto-negotiation between Gigabit Ethernet circuit partners
- Up to 20-Gbps of full-duplex traffic
- Maximum transmission units (MTUs) of up to 9192 bytes
- Environmentally hardened for 32° F (0° C) to 131° F (55° C) operating temperatures
- SEC PHY
- Timing PHY

Software features

- Optical diagnostics and related alarms
- Virtual Router Redundancy Protocol (VRRP) support
- IEEE 802.1Q virtual LANs (VLANs) support
- Remote monitoring (RMON) EtherStats
- Source MAC learning
- MAC accounting and policing—Dynamic local address learning of source MAC addresses
- Flexible Ethernet encapsulation
- Multiple tag protocol identifiers (TPID)
- Precision Time Protocol (PTP) or IEEE 1588v2
- Media Access Control Security (MACsec)

Interfaces

Syntax: *ge-fpc/pic/port* where:

- fpc: Slot in the router where the MPC is installed. The MPCs are represented in the CLI as **FPC0** through **FPC19**.
- pic: The logical PIC number on the MIC, numbered 0 or 1. [Figure 15 on page 152](#), [Figure 16 on page 153](#), and [Figure 17 on page 153](#) illustrate the port numbering for the Gigabit Ethernet MIC with SFP (E) installed in the MX960, MX480, and MX240, respectively.
- port: 0 through 9.

For example, *ge-3/1/0* is the interface for port 0 in PIC 1 on the MPC installed in slot 3.

[Figure 15 on page 152](#), [Figure 16 on page 153](#), and [Figure 17 on page 153](#) illustrate the port numbering for the MIC-3D-20GE-SFP-E installed in an MX960, MX480, and MX280, respectively.

Cables and connectors

TIP: You can use the [Hardware Compatibility Tool](#) to find information about the pluggable transceivers supported on your Juniper Networks device.

The list of supported transceivers for the MX Series is located at <https://pathfinder.juniper.net/hct/category/#catKey=100001&modelType;=All&pf;=MX+Series>.

LEDs

OK/FAIL LED, one bicolor:

- Green—MIC is functioning normally.
- Red—MIC has failed.

Link LED, one green per port:

- Off—No link.
 - On steadily—Link is up.
-

Figure 15: Port Numbering for the MIC-3D-20GE-SFP-E (MX960)

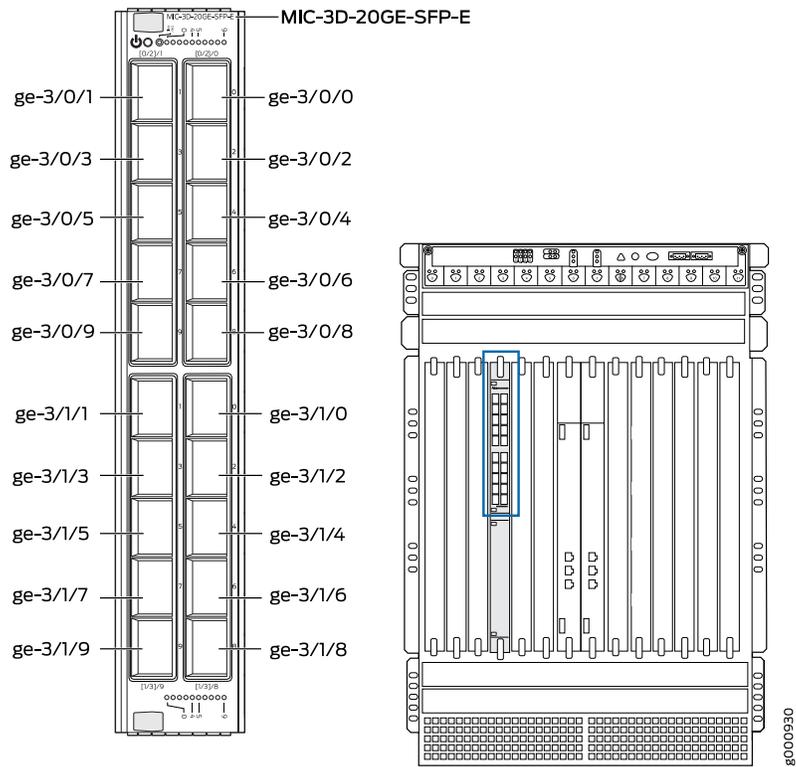
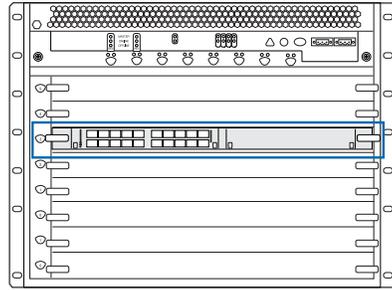


Figure 16: Port Numbering for the MIC-3D-20GE-SFP-E (MX480)



MIC-3D-20GE-SFP-E

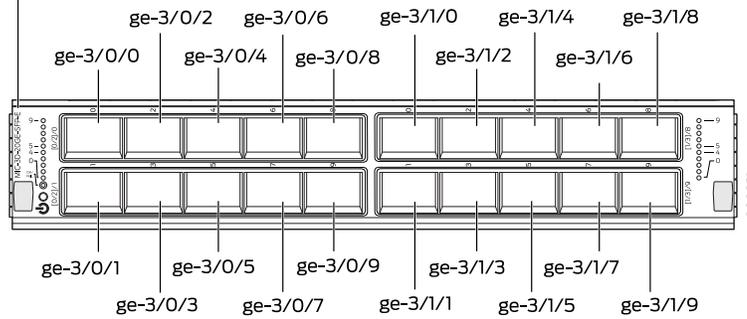
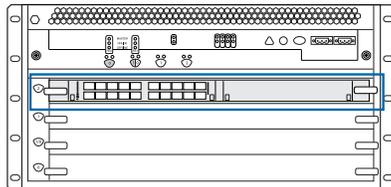


Figure 17: Port Numbering for the MIC-3D-20GE-SFP-E (MX240)



MIC-3D-20GE-SFP-E

