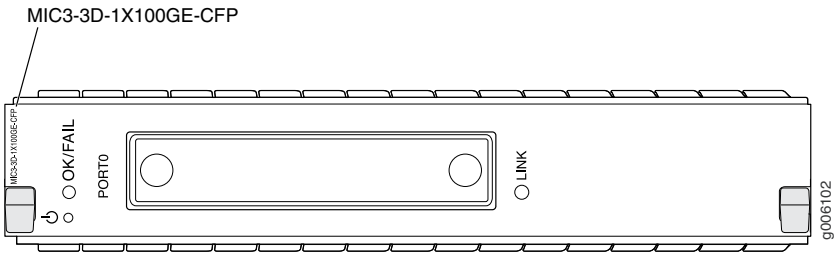
100-Gigabit Ethernet MIC with CFP

Figure 23: 1-Port 100 Gigabit Ethernet MIC with CFP



Software release	• 12.1 and later For information about which MPCs support this MIC, see "MIC/MPC Compatibility" on page 26. For information about which MICs are supported on MX Series routers, see "MICs Supported by MX Series Routers" on page 18.
Description	• One 100-Gigabit Ethernet port • Power requirement: 0.83 A @ 48 V (40 W) • Weight: 1.94 lb (0.88 kg) • Model number: MIC3-3D-1X100GE-CFP • Name in the CLI: **1X100GE CFP**
Hardware features	• High-performance throughput on each port at speeds up to 100 Gbps • Up to 100-Gbps of full-duplex traffic • Maximum transmission units (MTUs) of up to 9192 bytes • The port is labeled **PORT0**
Software features	• Synchronous Ethernet support • 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)
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. NOTE: The CFP-100GBASE-ER4 transceiver is NEBS-compliant in the 100-Gigabit Ethernet MIC with CFP, but only when the other MIC slot in the MPC3E is empty. If another MIC is present and the ambient temperature exceeds 40 degrees C, the software converts CFP-100GBASE-ER4 to low power mode, which takes the transceiver offline.

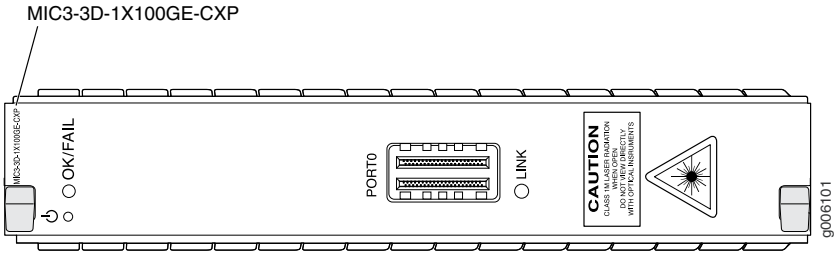
- Fiber-optic 100-Gigabit C form-factor Pluggable

  NOTE: The CFP-100GBASE-ZR transceiver is NEBS compliant in the 100-Gigabit Ethernet MIC with CFP, but only when the other MIC slot in the MPC3E is empty. If another MIC is present and the ambient air temperature exceeds 40 degrees C, the software disables the transmitter, which takes the optical transceiver offline. The other MIC slot must be filled with a blank panel.

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. • Yellow—Link is disabled.

100-Gigabit Ethernet MIC with CXP

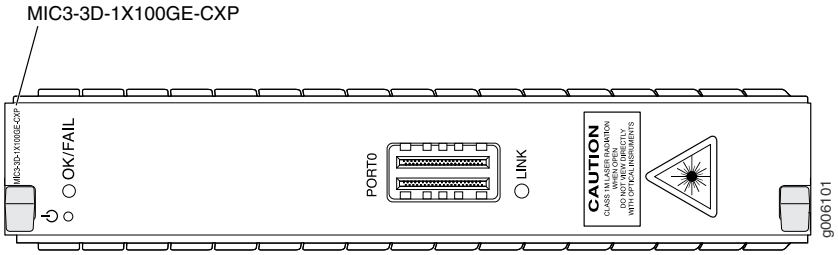
Figure 24: 100-Gigabit Ethernet MIC with CXP



Software release	• 12.2 and later For information about which MPCs support this MIC, see "MIC/MPC Compatibility" on page 26. For information about which MICs are supported on MX Series routers, see "MICs Supported by MX Series Routers" on page 18.
Description	• One 100-gigabit Ethernet port • Power requirement: 0.42 A @ 48 V (20 W) • Weight: 1.03 lb (0.47 kg) • Model number: MIC3-3D-1X100GE-CXP • Name in the CLI: **3D 1x100GE CXP**
Hardware features	• High-performance throughput on each port at speeds up to 100 Gbps • Up to 100-Gbps of full-duplex traffic • Maximum transmission units (MTUs) of up to 9192 bytes • The port is labeled **PORT0**
Software features	• Synchronous Ethernet support • 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)

100-Gigabit Ethernet MIC with CXP

Figure 24: 100-Gigabit Ethernet MIC with CXP

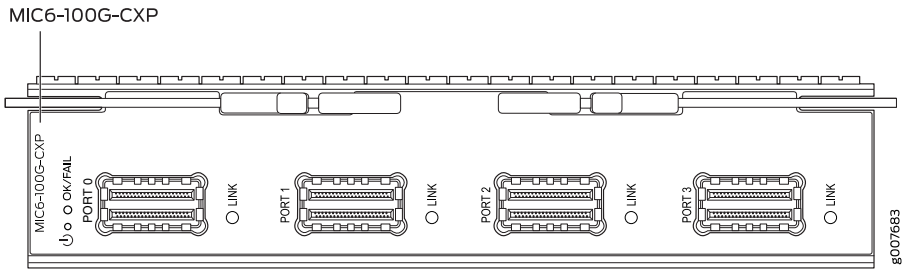


Software release	• 12.2 and later For information about which MPCs support this MIC, see "MIC/MPC Compatibility" on page 26. For information about which MICs are supported on MX Series routers, see "MICs Supported by MX Series Routers" on page 18.
Description	• One 100-gigabit Ethernet port • Power requirement: 0.42 A @ 48 V (20 W) • Weight: 1.03 lb (0.47 kg) • Model number: MIC3-3D-1X100GE-CXP • Name in the CLI: **3D 1x100GE CXP**
Hardware features	• High-performance throughput on each port at speeds up to 100 Gbps • Up to 100-Gbps of full-duplex traffic • Maximum transmission units (MTUs) of up to 9192 bytes • The port is labeled **PORT0**
Software features	• Synchronous Ethernet support • 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)
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 with or without activity. • Yellow—Link is disabled.

Related Documentation
- MX Series MIC Overview on page 17

100-Gigabit Ethernet MIC with CXP (4 Ports)



Software release	• Junos 13.3R2 and later For information about which MPCs support this MIC, see "MIC/MPC Compatibility" on page 26. For information about which MICs are supported on MX Series routers, see "MICs Supported by MX Series Routers" on page 18.
Description	• Four 100-Gigabit Ethernet ports • Power requirement: 5.5 A @ 10.4 V (57 W) • Weight: 2.7 lb (1.22 kg) • Model number: MIC6-100G-CXP • Name in the CLI: **4X100GE CXP**
Hardware features	• Line-rate throughput of up to 100Gbps per port. • Supports 100GBASE-SR10 over CXP pluggable optics • Supports LOS-squelch, enabling Synchronous Ethernet fast-clock-failover on a port down event • Maximum transmission units (MTUs) of up to 9192 bytes