SONET/SDH OC3/STM1 (Multi-Rate) MICs with SFP

Figure 37: 4-Port SONET/SDH OC3/STM1 (Multi-Rate) MIC with SFP
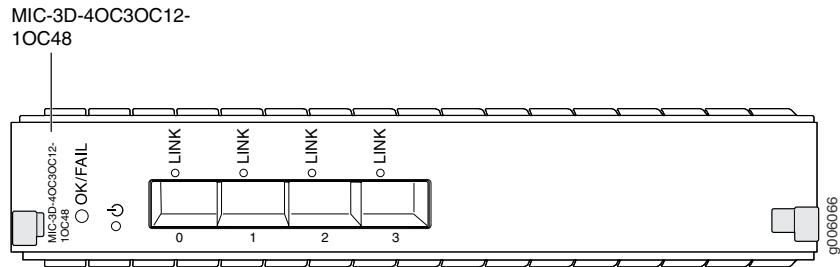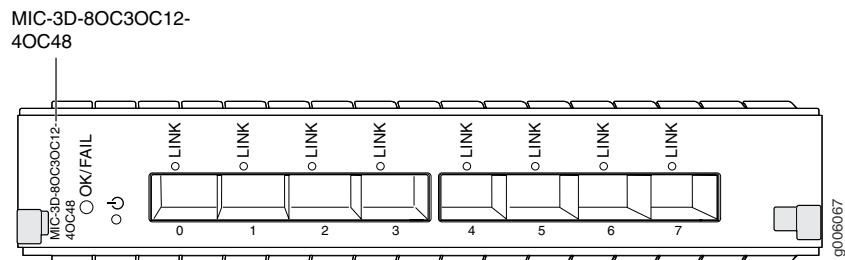
MIC-3D-4OC3OC12-
1OC48

Figure 38: 8-Port SONET/SDH OC3/STM1 (Multi-Rate) MIC with SFP

MIC-3D-8OC3OC12-
4OC48

Software release	• 4-port: Junos OS Release 11.2 and later
	• 8-port: Junos OS Release 11.2 and later

For information on which MPCs support these MICs, 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	• 4-port: 4 OC3/STM1 or OC12/STM4 ports
	• Each port is rate-selectable and supports OC3, OC12, or OC48.
	• The ports can be configured to support a combination of OC3, OC12, and OC48 rates. In the combination, you can configure only one port to support OC48, whereas OC3 or OC12 can be configured on all four ports.
	• 8-port: 8 OC3/STM1 or OC12/STM4 ports
	• Each port is rate-selectable and supports OC3, OC12, or OC48.
	• The ports can be configured to support a combination of OC3, OC12, and OC48 rates. In the combination, you can configure only four ports to support OC48, whereas OC3 or OC12 can be configured on all eight ports.
	• Power requirement:
	• 4-port: 2.6 A @ 9 V (23.4 W)
	• 8-port: 3.1 A @ 9 V (27.9 W)
	• Weight:
	• 4-port: 1.27 lb (0.58 kg)
	• 8-port: 1.47 lb (0.67 kg)
	• Model number:
	• 4-port: MIC-3D-4OC3OC12-1OC48
	• 8-port: MIC-3D-8OC3OC12-4OC48
Hardware features	• The ports are labeled:
	• 4-port: 0-3
	• 8-port: 0-7
	• Maximum transmission units (MTUs) of up to 9192 bytes
Software features	• Per-port SONET/SDH framing
	• Local and remote loopback on each port
	• Optical diagnostics and monitoring
	• Clocking options: internal or external/loop mode.
	• Unified in-service software upgrade (unified ISSU)
	• Encapsulations:
	• Multiprotocol Label Switching (MPLS) fast reroute
	• MPLS CCC (circuit cross-connect)
	• MPLS TCC (translational cross-connect)
	• Cisco High-Level Data Link Control
	• Cisco HDLC CCC
	• Cisco HDLC TCC
	• Point-to-Point Protocol (PPP)
	• PPP for CCC
	• PPP for TCC
	• Flexible Frame Relay
	• Frame Relay
	• Frame Relay for CCC
	• Frame Relay for TCC
	• PPP over Frame Relay
	NOTE: Ethernet over Frame Relay is not supported.

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—Not enabled • Green—Online with no alarms or failures • Yellow—Online with alarms for remote failures • Red—Active with a local alarm; router has detected a failure
Alarms, errors, and events	SONET alarms: • Loss of light (LOL) • Loss of signal (LOS) • Loss of frame (LOF) • Phase lock loop (PLL) • Severely errored frame (SEF) • Alarm indicator signal—line (AIS-L) • Alarm indicator signal—path (AIS-P) • Remote defect indicator—line (RDI-L) • Remote defect indicator—path (RDI-P) • Loss of pointer—path (LOP-P) • Bit error rate—signal degrade (BERR-SD) • Bit error rate—signal fail (BERR-SF) • Payload label mismatch—Path (PLM-P) • Unequipped—path (UNEQ-P) • Remote error indicator—path (REI-P) SDH alarms: • Loss of light (LOL) • Phase lock loop (PLL) • Loss of frame (LOF) • Loss of signal (LOS) • Severely errored frame (SEF) • Multiplex-section alarm indicator signal (MS-AIS) • H Path alarm indicator signal (HP-AIS) • Loss of pointer (LOP) • Bit error rate—signal degrade (BER-SD) • Bit error rate—signal fail (BER-SF) • Multiplex section—far end receive failure (MS-FERF) • High order path—far end receive failure (HP-FERF) • High order path—payload label mismatch (HP-PLM) • Remote error indicator (REI) • Unequipped (UNEQ)