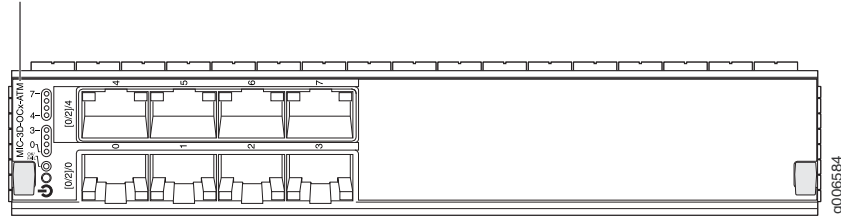


## ATM MIC with SFP

Figure 8: 8-Port ATM MIC with SFP

MIC-3D-OCx-ATM



Software release

- Junos 12.1 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

- Rate-selectable using one of the following rates:
  - 8-port OC3
  - 2-port OC12
- Power requirement: 0.73 A @ 48 V (35 W)
- Weight: 1.2 lb (0.54 kg)
- Model number: MIC-3D-8OC3-2OC12-ATM
- Name in the CLI: **3D 8OC3 2OC12 ATM**

Hardware features

- High-performance parsing of SONET/SDH frames
- Packet segmentation and reassembly (SAR) management and output port queuing
- Packet buffering, Layer 2 parsing
- Line rate throughput for each port

## Software features

- Circuit cross-connect (CCC) for leveraging ATM access networks
- User-configurable virtual circuit (VC) and virtual path (VP) support
- Support for idle cell or unassigned cell transmission
- OAM fault management processes alarm indication signal (AIS), remote defect indication (RDI) cells, and loop cells
- Point-to-point and point-to-multipoint mode Layer 2 counters per VC and per VP
- Local and remote loopback
- Simple Network Management Protocol (SNMP):
  - Management Information Base (MIB) 2 (RFC 1213)
  - ATM MIB (RFC 1695)
  - SONET MIB
  - PWE3 MIB (RFC 5603)
  - PW-ATM-MIB (RFC 5605)
  - PW-FRAME-MIB (RFC 5601)
  - MIB for CoS
- Unspecified bit rate (UBR), non-real-time variable bit rate (VBR), and constant bit rate (CBR) traffic shaping
- Per-VC or per-VP traffic shaping
- Support for F4 OAM cells (AIS, RDI, Loopback, and Continuity Check)
- Support for F5 OAM cells (AIS, RDI, Loopback, and Continuity Check)
- Support for 16 bit VCI range
- Encapsulations:
  - atm-ccc-cell-relay (Junos 12.1 and later)
  - atm-ccc-vc-mux (Junos 12.1 and later)
  - atm-snap (Junos 12.2 and later)
  - atm-vc-mux (Junos 12.2 and later)
  - atm-tcc-snap (Junos 13.3 and later)
  - atm-tcc-vc-mux (Junos 13.3 and later)
  - vlan-vci-ccc (Junos 16.1 and later)
  - ether-over-atm-llc
  - ppp-over-ether-over-atm-llc
  - atm-ppp-llc
  - atm-ppp-vc-mux

**NOTE:** Inline MLPPP is not supported on this MIC.

LEDs	<p><b>OK/FAIL LED, one bicolor:</b></p> <ul style="list-style-type: none"><li>• Green—MIC is functioning normally.</li><li>• Red—MIC has failed.</li></ul> <p>Link LED, one green per port:</p> <ul style="list-style-type: none"><li>• Off—No link.</li><li>• On steadily—Link is up.</li><li>• Blinking—Online with alarms for remote failures</li><li>• Blinking rapidly—Active with a local alarm; router has detected a failure</li></ul>
Alarms, errors, and events	<ul style="list-style-type: none"><li>• Alarm indication signal—line (AIS-L)</li><li>• Alarm indication signal—path (AIS-P)</li><li>• Bit error rate—signal degrade (BERR-SD)</li><li>• Bit error rate—signal fail (BERR-SF)</li><li>• Loss of cell delineation (LOC)</li><li>• Loss of frame (LOF)</li><li>• Loss of pointer (LOP-P)</li><li>• Loss of signal (LOS)</li><li>• Payload mismatch (PLM-P)</li><li>• Payload unequipped (unequipped STS at path level) (UNEQ-P)</li><li>• Remote defect indication—line (RDI-L)</li><li>• Remote defect indication—path (RDI-P)</li><li>• Error detection:<ul style="list-style-type: none"><li>• Bit interleaved parity errors B1, B2, B3</li><li>• Errored seconds (ES-S, ES-L, ES-P)</li><li>• Far-end bit errors, remote error indication—line (REI-L), far-end line coding violations (CV-LFE)</li><li>• Far-end bit errors, remote error indication—path (REI-P), far-end path coding violations (CV-PFE)</li><li>• Far-end errored seconds (ES-LFE, ES-PFE)</li><li>• Far-end severely errored seconds (SES-LFE, SES-PFE)</li><li>• Far-end unavailable seconds (UAS-LFE, UAS-PFE)</li><li>• Severely errored framing (SEF)</li><li>• Severely errored framing seconds (SEFS-S)</li><li>• Severely errored seconds (SES-S, SES-L, SES-P)</li><li>• Unavailable seconds (UAS-L, UAS-P)</li></ul></li></ul>