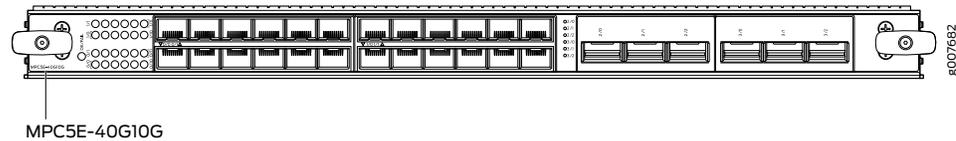


## 6x40GE + 24x10GE MPC5E



Software release	<ul style="list-style-type: none"> <li>Junos OS Release 13.3R2 and later</li> </ul>
Description	<ul style="list-style-type: none"> <li>Fixed-port MPC with six 40-Gigabit Ethernet ports and twenty-four 10-Gigabit Ethernet ports</li> <li>Weight: 21 lb (9.52 kg)</li> <li>Model number: MPC5E-40G10G</li> <li>Name in the CLI: <b>MPC5E 3D 24XGE+6XLGE</b></li> </ul>
Hardware features	<ul style="list-style-type: none"> <li>Line-rate throughput of up to 240 Gbps</li> <li>Supports one of the following port combinations:             <ul style="list-style-type: none"> <li>Six 40-Gigabit Ethernet ports</li> <li>Twenty-four 10-Gigabit Ethernet ports</li> <li>Three 40-Gigabit Ethernet ports and twelve 10-Gigabit Ethernet ports</li> </ul> </li> <li>Supports up to 32,000 queues per-slot</li> <li>LAN-PHY mode at 10.3125 Gbps on a per-port basis</li> <li>WAN-PHY mode at 9.95328 Gbps on a per-port basis</li> <li>Supports maximum transmission unit (MTU) size of 9,192 bytes for host bound packets. For Junos OS 16.1R1 and later releases, the MTU size supported is 9,500 bytes.</li> <li>The ports are labeled as:             <ul style="list-style-type: none"> <li>10-Gigabit Ethernet ports:                 <ul style="list-style-type: none"> <li>0/0 through 0/11</li> <li>1/0 through 1/11</li> </ul> </li> <li>40-Gigabit Ethernet ports:                 <ul style="list-style-type: none"> <li>2/0 through 2/2</li> <li>3/0 through 3/2</li> </ul> </li> </ul> </li> </ul> <p><b>NOTE:</b> On MX960 routers, all the MPC slots work with the ambient temperature of up to 40° C. However, when the chassis temperature exceeds 40° C, slots 0 and 11 can work with MPC1s, MPC2s, and the 16x10GE MPC.</p>

**Software features**

- Optical diagnostics and related alarms
- Support for optical transport network (OTN) on 10-Gigabit Ethernet ports
- Two packet-forwarding engines, PFE0 and PFE1. PFE0 hosts PIC0 and PIC2. PFE1 hosts PIC1 and PIC3.
- Configurable LAN-PHY and WAN-PHY mode options per 10-Gigabit Ethernet port
- See “[Protocols and Applications Supported by the MPC5E for MX Series Routers](#)” on page 359 for information about the protocols and applications that this MPC supports.

**NOTE:** On MX240, MX480, and MX960 routers, MPC5E powers on only if the **network-services** mode on the router is configured to either **enhanced-ip** or **enhanced-ethernet**. On MX2010 and MX2020 routers, only **enhanced-ip** is supported.

**NOTE:** A maximum of two PICs can be powered on at any one time (PIC0 or PIC2, and PIC1 or PIC3). The other PICs must be powered off.

**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:** QSFP-40GE-LX4 is not NEBS compliant on the MX960 router in FPC slot 0 or FPC slot 11.

**Power requirements**

- Typical: 9.68 A @ 48 V (460 W)
- At different temperatures:
  - 55° C: 607 W
  - 40° C: 541 W
  - 25° C: 511 W

**LEDs**

**OK/FAIL LED**, one bicolor:

- Steady green—MPC is functioning normally.
- Blinking green—MPC is transitioning online or offline.
- Red—MPC has failed.

10-Gigabit Ethernet **LINK LED**, one green per port:

- Green—Link is up.
- Off—Link is down or disabled.

40-Gigabit Ethernet **LINK LED**, one bicolor per port:

- Green—Link is up.
- Yellow—Link is disabled.
- Off—Link is down.

**Related Documentation**

- [MX Series MPC Overview on page 11](#)
- [MPCs Supported by MX Series Routers on page 12](#)
- [MPC5E on MX Series Routers Overview](#)
- [10-Gigabit Ethernet OTN Options Configuration Overview](#)