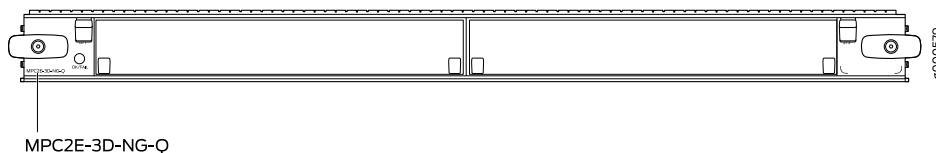


## MPC2E NG Q



Software release	<ul style="list-style-type: none"> <li>Junos OS releases 14.1R4, 14.2R3 and Junos Continuity, Junos OS release 15.1 and later.</li> <li>Refer to “<a href="#">MIC/MPC Compatibility</a>” on page 26 for information about which MICs are supported on this MPC.</li> <li>Refer to the JTAC Knowledgebase article <a href="https://kb.juniper.net/KB21476">https://kb.juniper.net/KB21476</a> for recommended software releases.</li> </ul>
Description	<ul style="list-style-type: none"> <li>80 Gbps capacity with hierarchical quality of service (HQoS)</li> <li>Requires high-capacity fan trays and high capacity filter trays</li> <li>Weight: 15.96 lb (7.26 kg)</li> <li>Model number: MPC2E-3D-NG-Q</li> <li>Name in the CLI: <b>MPC2E NG HQoS</b></li> </ul> <p><b>NOTE:</b> MPC2E-3D-NG-Q is not compatible with SCB, you must use either SCBE-MX or SCBE2-MX for the switch fabric interface.</p> <p><b>NOTE:</b> To power on an MPC on MX240, MX480, and MX960 routers, you must configure the <b>network-services enhanced-ip</b> or <b>network-services enhanced-ethernet</b> statement. With this configuration, the router functions in <b>Enhanced-IP/Enhanced-Ethernet network services</b> mode and powers on MPCs and MS-DPCs only. The MPC does not come online if this statement is not configured. On MX2010, and MX2020 routers, <b>network-services enhanced-ip</b> is configured by default.</p>
Hardware features	<ul style="list-style-type: none"> <li>Line-rate throughput of up to 80 Gbps</li> <li>Supports up to 512,000 queues per slot</li> <li>Supports WAN-PHY mode at 9.95 Gbps and LAN-PHY mode at 10.31 Gbps</li> <li>Two slots for MICs</li> <li>Junos Trio chipsets for increased scaling for bandwidth, subscribers, and services.</li> </ul> <p><b>NOTE:</b> The MPC2E-3D-NG-Q has only one lookup chip (LU).</p> <p><b>NOTE:</b> MPC2E-3D-NG-Q does not support MIC3-3D-10XGE-SFPP, MIC3-3D-1X100GE-CFP, MIC3-3D-1X100GE-CXP, and MIC3-3D-2X40GE-QSFPP.</p>

Software features	<ul style="list-style-type: none"><li>• Chained composite next hops</li><li>• Layer 3 VPN localization</li><li>• Detection of Layer 2 loops</li><li>• Entropy label support in mixed mode</li><li>• SNMP and CLI support for Routing Engine memory monitoring</li><li>• BFD support for inline MLPPP/MLFR</li><li>• Mixed Mode LAG support on core interfaces</li><li>• Dynamic power management for MICs</li><li>• See "<a href="#">Protocols and Applications Supported by the MX240, MX480, MX960, MX2010, and MX2020 MPC2E</a>" on page 334 for information about the protocols and applications that this MPC supports.</li></ul>
Power requirement	<p>Maximum with highest-power MICs at 55° C: 11.02 A @ 48 V (529 W)</p> <p>At different temperatures:</p> <ul style="list-style-type: none"><li>• 55° C: 529 W</li><li>• 40° C: 460 W</li><li>• 25° C: 438 W</li></ul>
LEDs	<p><b>OK/FAIL LED</b>, one bicolor:</p> <ul style="list-style-type: none"><li>• Steady green—MPC is functioning normally.</li><li>• Blinking green—MPC is transitioning online or offline.</li><li>• Red—MPC has failed.</li></ul>