The ProSAFE® M4200-10MG-PoE+ Managed Switch was designed from the ground up to optimize the installation of Wave 2 11ac access points. Includes eight full power PoE+ and multi-speed 1G, 2.5G ports for 100 meter cable runs, combined with two 10G uplinks for a fully non-blocking deployment of eight Wave 2 11ac access points. NETGEAR® Multigigabit Ethernet is compatible with most major wireless and switching vendors managed solutions, and the only one with 8x2.5G to the AP and 2x10G line-rate aggregation to the wiring closet. Plenum rated, slim design and mounting accessories allow for access point placement optimization and cabling efficiency.

**NETGEAR M4200 series key features:**

- Eight full power PoE+ and multi-speed 1G, 2.5G ports combined with two 10G SFP+ uplinks
- Allow for a fully non-blocking deployment of eight Wave 2 11ac access points, with 240W PoE budget
- Two of these multi-speed 1G, 2.5G PoE+ ports also support 5G
- NBAS-T compliant Multigigabit Ethernet (basis for the upcoming IEEE 802.3bz standard)
- 2.5X to 5X faster speeds up to 100m on legacy Cat5e/Cat6 cables – yet providing 100M and 1G backward compatibility
- Whisper quiet 28.9dB acoustics when operating at 25°C (77°F), well below normal offices ambient background noise
- Secure placement above drop-down ceilings, in air passageways and where other switches will not go, vertical or horizontal, flat or perpendicular
- Easy Mount options whether it’s directly on a wall, attached to a rectangular or round pole, or mounted in a standard 19-inch rack
- Low latency and scalable table size with 16K MAC, 1K ARP/NDP, 1K VLANs, 32 routes (IPv4) and 32 routes (IPv6)
- SDN-Ready OpenFlow 1.3 support for maximum investment protection

**NETGEAR M4200 series software features:**

- Advanced classifier-based, time-based hardware implementation for L2 (MAC), L3 (IP) and L4 (UDP/TCP transport ports) security and prioritization
- Selectable Port-Channel / LAG (802.3ad – 802.1AX) L2/L3/L4 hashing for fault tolerance and load sharing with any type of Ethernet channeling
- Voice VLAN with SIP, H323 and SCCP protocols detection and LLDP-MED IP phones automatic QoS and VLAN configuration
- Efficient authentication tiering with successive DOT1X, MAB and Captive Portal methods for streamlined BYOD
- Comprehensive IPv4/IPv6 static and IPv4 dynamic routing including RIP
- Layer 2 multicast forwarding with IGMPv3/MLDv2 Snooping and IGMPv2/MLDv1 Snooping Querier
- Advanced security including malicious code detection, DHCP Snooping, Dynamic ARP Inspection and DoS attacks mitigation
- Innovative multi-vendor Auto-iSCSI capabilities for easier virtualization optimization

**NETGEAR M4200 series resiliency and availability features:**

- Link Dependancy new feature enables or disables ports based on the link state of different ports
- Per VLAN Spanning Tree and Per VLAN Rapid Spanning Tree (PVSTP/PV RSTP) offer interoperability with PVST+ infrastructures

**NETGEAR M4200 series management features:**

- DHCP/BootP innovative auto-installation including firmware and configuration file upload automation
- Industry standard SNMP, RMON, MIB, LLDP, AAA, sFlow and RSPAN remote mirroring implementation
- Service port for out-of-band Ethernet management (OOB)
- Standard RS232 straight-through serial RJ45 and Mini-USB ports for local management console
- Standard USB port for local storage, logs, configuration or image files
- Dual firmware image and configuration file for updates with minimum service interruption
- Industry standard command line interface (CLI) for IT admins used to other vendors commands
- Fully functional Web console (GUI) for IT admins who prefer an easy to use graphical interface
- Single-pane-of-glass NMS300 management platform with mass configuration support

**NETGEAR M4200 series warranty and support:**

- NETGEAR ProSAFE Lifetime Hardware Warranty*
- Included Lifetime Technical Support
- Included Lifetime Next Business Day Hardware Replacement
## Hardware at a Glance

<table>
<thead>
<tr>
<th>Model name</th>
<th>Form Factor</th>
<th>Switching Fabric</th>
<th>100/1000/2.5G BASE-T RJ45 ports</th>
<th>100/1000/2.5G/5G BASE-T RJ45 ports</th>
<th>1000/10GBASE-X SFP+ ports</th>
<th>PSU</th>
<th>Fans</th>
<th>Out-of-band Console</th>
<th>Management Model number</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4200-10MG-PoE+</td>
<td>Full width 1-unit 1U rack mount 3.9 in (10 cm) deep</td>
<td>90 Gbps</td>
<td>6 ports PoE+ 100M, 1G, 2.5G</td>
<td>2 ports PoE+ 100M, 1G, 2.5G, 5G</td>
<td>2 ports PoE+ 1G, 10G</td>
<td>Internal</td>
<td>Fixed</td>
<td>Side-to-side 28.9dB Low acoustics</td>
<td>Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Front) Console: Mini-USB (Front) Storage: USB (Front)</td>
</tr>
</tbody>
</table>

## Software at a Glance

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>M4200-10MG-PoE+</td>
<td>Out-of-band; Web GUI; HTTPS; CLI; Telnet; SSH; SNMP; MIBs; RSPAN; Radius Users; TACACS+</td>
<td>Link Dependency (Enable or Disable one or more ports based on the link state of one or more different ports) Syslog and Packet Captures can be sent to USB storage</td>
<td>Ingress 1 Kbps shaping Time-based Single Rate Policing</td>
<td>KMPv3 MLDv2 Snooping IGMPv1, v2 and MLDv1 Snooping Querier Control Packet Flooding</td>
<td>Auto-VoIP Auto-iSCSI LLDP-MED</td>
<td>STP, RSTP, RVRP(R)STP BPDU/STRG Root Guard EEE</td>
<td>IEEE (802.3az)</td>
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</table>

* CLI only

## Performance at a Glance

<table>
<thead>
<tr>
<th>Model name</th>
<th>MAC/ ARP/ NDP</th>
<th>Routing / Switching Capacity</th>
<th>Through-put</th>
<th>Application Route Scaling</th>
<th>Packet Buffer</th>
<th>Latency</th>
<th>ACLs</th>
<th>Multicast IGMP Group membership</th>
<th>CPU</th>
<th>VLANs</th>
<th>DHCP</th>
<th>sFlow</th>
<th>Model number</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4200-10MG-PoE+</td>
<td>16K MAC 1K ARP/ NDP</td>
<td>90 Gbps Line-rate</td>
<td>66.9 Mpps</td>
<td>Static: 32v4/32v6 RIP: 32</td>
<td>16M</td>
<td>64-byte frames: &lt;2.8us 1G RJ45 &lt;7.2us 2G RJ45 &lt;5.7us 5G RJ45 &lt;0.9us 10G SFP+</td>
<td>50 ACLs 512 rules per list</td>
<td>16K ACL rules (ingress)</td>
<td>1K IPv4 1K IPv6</td>
<td>CPU 800 MHz 1GB RAM 256MB Flash</td>
<td>1K VLANs</td>
<td>DHCP Server: 2K leases 2K pollers 8 receivers</td>
<td>GSM4210P</td>
</tr>
</tbody>
</table>