

ProSAFE® Intelligent Edge Managed Switches



M4200 series

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
- NBASE-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 Dependency 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/ PVRSTP) 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

			FRONT				SIDE	MANAGEMENT		
Model name	Form-Factor	Switching Fabric	100/1000/2.5G BASE-T RJ45 ports	100/1000/2.5G/5G BASE-T RJ45 ports	1000/10GBASE-X SFP+ ports	PSU	Fans	Out-of-band Console	Model number	
M4200-10MG-PoE+	Full width 1-unit 1U rack mount 3.9 in (10 cm) deep	90 Gbps	6 ports PoE+ 100M; 1G; 2.5G	2 ports PoE+ 100M; 1G; 2.5G; 5G	2 ports 1G; 10G	Internal	Fixed Side-to-side 28.9dB Low acoustics	Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Front) Console: Mini-USB (Front) Storage: USB (Front)	GSM4210P	
			240W PoE budget 8-port PoE+ full provisioning							

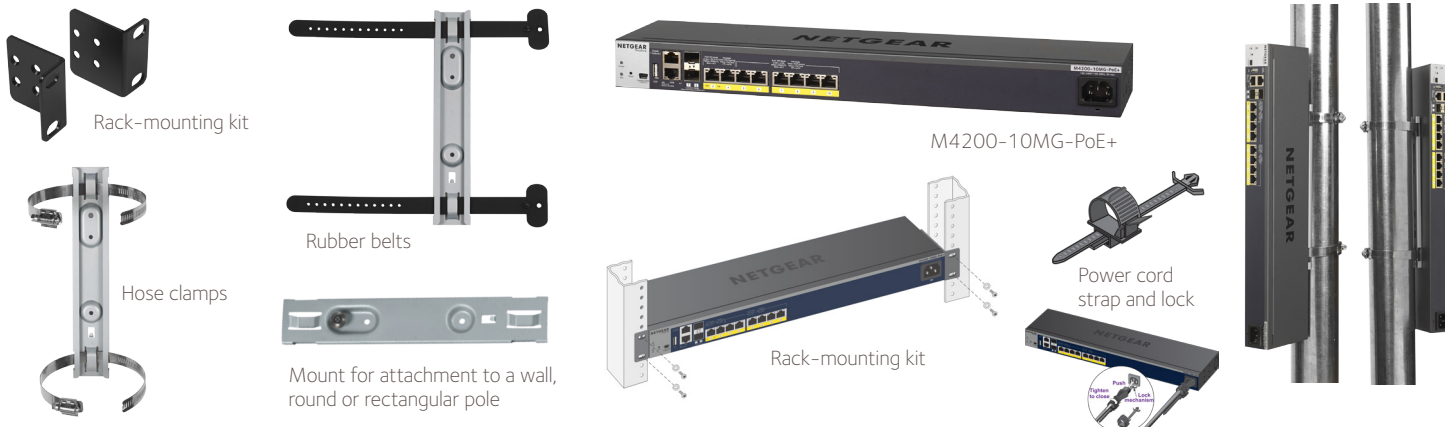
Software at a Glance

LAYER 3 PACKAGE												
Model name	Management	Usability Enhancements	IPv4/IPv6 ACL and QoS, DiffServ	IPv4/IPv6 Multicast filtering	IPv4 / IPv6 Policing and Convergence	Spanning Tree Green Ethernet	VLANs	Trunking Port Channel	IPv4/IPv6 Authentication Security	IPv4/IPv6 Static Routing	IPv4 Dynamic Routing	Model number
M4200-10MG-PoE+	Out-of-band; Web GUI; HTTPs; CLI; Telnet; SSH SNMP, MIBs RSPAN Radius Users, TACACS+	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	Ingress 1 Kbps shaping Time-based Single Rate Policing	IGMPv3 MLDv2 Snooping IGMPv1,v2 and MLDv1 Snooping Querier Control Packet Flooding	Auto-VoIP Auto-ISCSI LLDP-MED	STP, MTP, RSTP PV(R)STP* BPDU/STRG Root Guard EEE (802.3az)	Static, Dynamic, Voice, MAC GVRP/ GMRP QinQ, Private VLANs	Static or Dynamic LACP Seven (7) L2/L3/L4 hashing algorithms	Successive Tiering (DOT1X; MAB; Captive Portal) DHCP Snooping IPv4: Dynamic ARP Inspection	IPv4/IPv6 Port, Subnet, VLAN routing DHCPv4 Relay; DHCPv4 Server	IPv4: RIP	GSM4210P

* CLI only

Performance at a Glance

TABLE SIZE													
Model name	MAC ARP/NDP	Routing / Switching Capacity	Throughput	Application Route Scaling	Packet Buffer	Latency	ACLs	Multicast IGMP Group membership	CPU	VLANs	DHCP	sFlow	Model number
M4200-10MG-PoE+	16K MAC 1K ARP/NDP	90 Gbps Line-rate	66.9 Mpps	Static: 32v4/32v6 RIP: 32	16Mb	64-byte frames: <2.8µs 1G RJ45 <7.2µs 2.5G RJ45 <5.7µs 5G RJ45 <0.9µs 10G SFP+	50 ACLs 512 rules per list 16K ACL rules (ingress)	1K IPv4 1K IPv6	CPU 800 Mhz 1GB RAM 256MB Flash	1K VLANs	DHCP Server: 2K leases IPv4: 256 pools	10 samplers 10 pollers 8 receivers	GSM4210P



* This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller and modifications to product may void the warranty; covers hardware, fans and internal power supplies - not software or external power supplies See <http://www.netgear.com/about/warranty/> for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller.