Intelligent Edge Managed Switches





M4300 series

The M4300 Stackable L3 Managed Switch Series comes with 40G, 10G and 1G models in a variety of form factors including PoE+ full provisioning. SDN-ready with OpenFlow 1.3, M4300 Switch Series delivers IPv4/IPv6 rich services for mid-enterprise edge and SMB core with mixed stacking between 40-, 10- and 1-Gigabit models. Layer 3 feature set includes static and policy-based routing, RIP, VRRP, OSPF, and PIM dynamic routing. M4300 is ideal for server aggregation, wireless access, unified communications and Video-over-IP.

NETGEAR M4300 series key features:

- \cdot Cost effective 1G access layer in campus LAN networks, and high performance 10G / 40G distribution layer for midsize organizations networks
- Zero Touch AV-over-IP with pre-configured L2 Multicast (SDVoE-ready)
- Advanced Layer 2, Layer 3 and Layer 4 feature set no license required including Policy Based Routing, RIP, VRRP, OSPF and PIM
- Innovative mixed "Spine and Leaf", 1G, 10G and 40G stacking with nonstop forwarding (NSF) and hitless failover redundancy
- Low acoustics, half-width 16-port and 24-port 10G models can be paired in a single rack space for redundant Top of Rack
- Modular 12-slot 2RU model scaling up to 96-port 10G by multiple of 8 ports or 24-port 40G by multiple of 2 ports
- Up to 768 (10 Gigabit) ports, 192 (40 Gigabit) ports or 384 (1 Gigabit) ports, or a combination in a single logical switch
- PoE+ (30 watts per port) with hot swap, redundant power supplies and full provisioning
- SDN-Ready OpenFlow 1.3 support for maximum investment protection

NETGEAR M4300 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 dynamic routing including Proxy ARP, OSPF, Policy-based routing and automatic 6-to-4 tunneling
- Enhanced IPv4/IPv6 multicast forwarding with IGMPv3/MLDv2 ASM and SSM Proxy and Control Packet Flooding protection
- High performance IPv4/IPv6 multicast routing with PIM timer accuracy and unhandled PIM (S,G,rpt) state machine events transitioning
- Advanced IPv4/IPv6 security implementation including malicious code detection, DHCP Snooping, IP Source Guard protection and DoS attacks mitigation
- Innovative multi-vendor Auto-iSCSI capabilities for easier virtualization optimization

NETGEAR M4300 series resiliency and availability features:

- Dual redundant, modular power supplies equipping full width models contribute to business continuity management
- Vertical or horizontal flexible stacking with management unit hitless failover and nonstop forwarding (NSF) across operational stack members
- Spine and leaf architecture with every leaf switch (1G access switches) connecting to every spine switch (distributed 10G "core" switches)
- Stacking and distributed link aggregation allow for multi-resiliency with zero downtime and load balancing capabilities
- 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 M4300 series management features:

- DHCP/BootP innovative auto-installation including firmware and configuration file upload automation
- \cdot 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 for updates with minimum service interruption
- \cdot 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 massconfiguration support

NETGEAR M4300 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		RE	EAR	MANAGEMENT		
10G models Model name	Form- Factor	Switching Fabric	10GBASE-T RJ45 ports	10GBASE-X SFP+ ports	40GBASE-X QSFP+ports	PSU	Fans	Out-of-band Console	Model numbe	
M4300-8X8F	Half-width 1-unit 1U 2-unit 1U rack mount	320 Gps	8 ports (independent) 100M; 1G; 10G	8 ports (independent) 1G; 10G	_	Modular 1 bay 1 PSU included: APS250W	Fixed Front-to-back 36.9dB	Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Front) Console: Mini-USB (Front) Storage: USB (Front)	XSM43165	
M4300-12X12F	Half-width 1-unit 1U 2-unit 1U rack mount	480 Gps	12 ports (independent) 100M; 1G; 10G	12 ports (independent) 1G; 10G	_	Modular 1 bay 1 PSU included: APS250W	Fixed Front-to-back 36.9dB	Ethernet: Out-of-band 1G port (Back) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)	XSM4324S	
M4300-24X	Half-width 1-unit 1U 2-unit 1U rack mount	480 Gps	24 ports 100M; 1G; 10G	4 ports (shared, back) 1G; 10G	_	Modular 1 bay 1 PSU included: APS250W	Fixed Front-to-back 37dB	Ethernet: Out-of-band 1G port (Back) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)	XSM4324CS	
M4300-24X24F	Full width 1-unit 1U rack mount	960 Gps	24 ports (independent) 100M; 1G; 10G	24 ports (independent) 1G; 10G	_	Modular 2 bays 1 PSU included: APS250W	Fixed Front-to-back 35.8dB	Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Front) Console: Mini-USB (Front) Storage: USB (Front)	XSM4348S	
M4300-48X	Full width 1-unit 1U rack mount	960 Gps	48 ports 100M; 1G; 10G	4 ports (shared) 1G; 10G	_	Modular 2 bays 1 PSU included: APS250W	Fixed Front-to-back 40.3dB	Ethernet: Out-of-band 1G port (Back) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)	XSM4348C5	
M4300-96X	Modular 1-unit 2U rack mount	1.920 Tbps	up to 96 ports 100M; 1G; 2.5G; 5G; 10G	up to 96 ports 1G; 10G	Up to 24 ports 40G	Modular 2 bays for APS600W or APS1200W	Fixed Front-to-back 35.8dB (no PoE) 66.8dB (max PoE)	Ethernet: Out-of-band 1G port (Back) Console: RJ45 RS232 (Back) Console: Mini-USB (Back) Storage: USB (Back)		
12 slo	ts for port expa	insion cards:	APM408C (8 ports)	APM408F (8 ports)	APM402XL (2 ports)					
			APM408P (8 ports PoE+)*			Empty switch ve	mpty switch version, no PSU (PSU must be purchased separately)			
			APM408P cards	s are delivering PoE for 48 PoE+ ports is preferred for PoE	per switch.	Starter Kit with t	XSM4396K1			
			110V/220V AC	34W (min) 232W (max 1 x APS600W PSU, or		110V/220V AC		E Budget with 2 x APS1200W PSUs in shared mode*		
			110V/220V AC	634W (min) 832W (m with 2 x APS600W PSL		110V AC 220V AC	110V AC 1,084W (min) 1,282W (max) PoE Budget with APS600W+APS1200W PSUs in shared in 220V AC 1,234W (min) 1,432W (max) PoE Budget with APS600W+APS1200W PSUs in shared in			
			110V AC	484W (min) 682W (m with 1 x APS1200W PS redundant						
M4300-96X online o www.netgear.com/9			220V AC	634W (min) 832W (m with 1 x APS1200W PS redundant						

* PoE Budget depends on number of PSU and APM port cards per switch. Min values above are guaranteed when 6xAPM408P (48x10G PoE+) plus any combination of 6 other port cards. Max values are guaranteed when only 6xAPM408P (48x10G PoE+) per switch, or less. APS600W provides 600W@110V/220VAC; APS1200W delivers 1,050W@110VAC or 1,200W@220VAC per PSU. The system consumes 110W, plus 5W per empty slot. APM408C/APM408P consume 38W per port card. APM408F/APM402XL consume 23W per port card.



SDVoE is a trademark of the SDVoE Alliance www.sdvoe.org



Hardware at a Glance

				FRONT		RE	AR	MANAGEMENT	
1G models Model name	Form- Factor	Switching Fabric	10/100/ 1000 BASE-T RJ45 ports	100/1000/ 10G BASE-T RJ45 ports	1000/10G BASE-X SFP+ ports	PSU	Fans	Out-of-band Console	Model number
M4300-28G	Full width 1-unit 1U rack mount	128 Gps	24 ports (No 10M/ half on ports 17-24)	2 ports (independent) 100M; 1G; 10G	2 ports (independent) 1G; 10G	Modular 2 bays 1 PSU included: APS150W	Fixed Front-to-back 30.3dB	Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)	GSM4328S
M4300-52G	Full width 1-unit 1U rack mount	176 Gps	48 ports (No 10M/ half 17-24 and 41-48)	2 ports (independent) 100M; 1G; 10G	2 ports (independent) 1G; 10G	Modular 2 bays 1 PSU included: APS150W	Fixed Front-to-back 31.5dB	Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)	GSM4352S
M4300-28G-PoE+	Full width 1-unit 1U rack mount	128 Gps	24 ports PoE+ (No 10M/ half on ports 17-24)	2 ports (independent) 100M; 1G; 10G	2 ports (independent) 1G; 10G	Modular 2 bays	Fixed Front-to-back 39.8dB	Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)	GSM4328PA
				480W PoE Budget wi 480W PoE Budget wit 720W PoE Budget wi		1 PSU included: APS550W			
			110V AC input	630W PoE Budget wi 630W PoE Budget wit 720W PoE Budget wit		1 PSU included: APS1000W			GSM4328PB
			220V AC input	720W PoE Budget wi 720W PoE Budget wi	th 1 PSU :h 2 PSUs in RPS mode				
M4300-52G-PoE+	Full width 1-unit 1U rack mount	176 Gps	48 ports PoE+ (No 10M/ half 17-24 and 41-48)	2 ports (independent) 100M; 1G; 10G	2 ports (independent) 1G; 10G	Modular 2 bays RPS connector	Fixed Front-to-back 39.8dB	Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)	GSM4352PA
			110V/220V AC input	480W PoE Budget wi 480W PoE Budget wit 720W PoE Budget wit	h 2 PSUs in RPS mode	l 1 PSU included: APS550W		l 1000 for power redundancy (RPS) when rrnal PSUs are used in EPS mode	GSM4352PA
			110V AC input	591W PoE Budget wi 591W PoE Budget wit 1,010W PoE Budget w		1 PSU included: APS1000W		1000 for power redundancy (RPS) when rrnal PSUs are used in EPS mode	GSM4352PB
			220V AC input	860W PoE Budget wi 860W PoE Budget wit 1,440W PoE Budget w	h 2 PSUs in RPS mode				

PoE models: APS550W and APS1000W cannot be mixed and matched. A switch can only have two APS550W, or two APS1000W. PA versions can be upgraded to PB, but their APS550W must be replaced by APS1000W (and reversely).



Software at a Glance

					LAYE	R 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 Authentica- tion Security	IPv4/IPv6 Static Routing	IPv4/IPv6 Dynamic Routing	Mode
M4300 series	Out-of-band; Web GUI; HTTPs; CLI; Telnet; SSH SNMP, MIBs RSPAN Radius Users, TACACS+	Stacking NSF witth Hitless Failover 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/ egress 1 Kbps shaping Time-based Single Rate Policing	IGMPv3 MLDv2 Snooping, Proxy ASM & SSM IGMPv1,v2 Querier Control Packet Flooding	Auto-VolP Auto-iSCSI Policy-based routing (PBR) LLDP-MED	STP, MTP, RSTP PV(R)STP ¹ BPDU/STRG Root Guard EEE (802.3az)	Static, Dynamic, Voice, MAC GVRP/ GMRP QinQ, Private VLANs	Distributed LAG across the stack Static or Dynamic LACP (LACP automatically reverts to and from Static LAG) Seven (7) L2/L3/ L4 hashing algorithms	Successive Tiering (DOT1X; MAB; Captive Portal) DHCP Snooping Dynamic ARP Inspection IP Source Guard	Port, Subnet, VLAN routing, DHCP Relay; Multicast static routes; Stateful DHCPv6 Server	IPv4: RIP, VRRP IPv4/IPv6: OSPF, Proxy ARP, PIM-SM, 6-to-4 tunnels	All model

¹ CLI only

Performance at a Glance

						TABLE SIZ	E*						
Model name	MAC ARP/ NDP	Routing / Switching Capacity	Through- put	Application Route Scaling	Packet Buffer	Latency	IP Multicast Forwarding Entries	CPU	Multicast IGMP Group member- ship	VLANs	DHCP	sFlow	Model number
M4300-96X	256K MAC 8K ARP/ NDP	1.920 Tbps Line-rate	2,857 Mpps	Static: 64v4/ 64v6 RIP: 512 OSPF: 12,000	96Mb	64-byte frames <2.56µs 10G RJ45 <0.89µs 10G SFP	2,048 IPv4 1,024 IPv6	CPU 1.4 Ghz 2GB RAM 256MB Flash					XSM4396K0 XSM4396K1
M4300-24X24F M4300-48X	128K MAC 8K ARP/ NDP	960 Gbps Line-rate	714 Mpps	Static: 64v4/ 64v6 RIP: 512 OSPF: 12,000	56Mb	64-byte M4300-24X24F <2.39µs 10G RJ45 <0.88µs 10G SFP+ M4300-48X <2.41µs 10G RJ45 <1.51µs 10G SFP+	1,024 IPv4 512 IPv6	CPU 800 Mhz 1GB RAM 256MB Flash	2K IPv4 2K IPv6	4K VLANs	DHCP Server: 2K leases IPv4: 256 pools IPv6: 16 pools	416 samplers 416 pollers 8 receivers	XSM4348S XSM4348CS
M4300 other models	16K MAC 888 ARP/ NDP	Up to 480 Gbps All models Line-rate	Up to 357 Mpps	Static: 64v4/ 64v6 RIP: 512 OSPF: 512	M4300- 12X12F: 32Mb Others: 16Mb	M4300-8X8F: <2.43µs 10G RJ45 <0.89µs 10G SFP+ All others: <2.76µs 10G RJ45 <1.83µs 10G SFP+	96 IPv4 32 IPv6	CPU 800 Mhz 1GB RAM 256MB Flash					All other models

* For mixed stacking between more capable devices and less capable devices, SDM mixed stacking template is used based on "least common denominator" set of capacities and capabilities



Ordering Information

ORDERING INFORMATION	
M4300-8X8F	
Americas, Europe	XSM4316S-100NES
Asia Pacific	XSM4316S-100AJS
China	XSM43165-100PRS
	X3M13103 100110
M4300-12X12F	VEMADDAE 100NEE
Americas, Europe Asia Pacific	XSM4324S-100NES XSM4324S-100AJS
China	XSM4324S-100AJS XSM4324S-100PRS
	ASIM45245-TUUPR5
M4300-24X	
Americas, Europe	XSM4324CS-100NES
Asia Pacific	XSM4324CS-100AJS
China	XSM4324CS-100PRS
M4300-24X24F	
Americas, Europe	XSM4348S-100NES
Asia Pacific	XSM4348S-100AJS
China	XSM4348S-100PRS
M4300-48X	
Americas, Europe	XSM4348CS-100NES
Asia Pacific	XSM4348CS-100AJS
China	XSM4348CS-100PRS
M4300-96X	
Worldwide (Empty Switch, No PSU)	XSM4396K0-10000S
Americas, Europe (Starter Kit 48xSFP+)	XSM4396K1-1000ES
Asia Pacific (Starter Kit 48xSFP+)	XSM4396K1-100AIS
Worldwide (10G Copper card)	APM408C-10000S
Worldwide (10G Copper PoE+ card) Worldwide (10G Copper PoE+ card)	APM408P-10000S
Worldwide (10G Fiber card)	APM408F-10000S
Worldwide (40G Fiber card)	APM402XL-10000S
Americas, Europe (600W PSU)	APS600W-100NES
Asia Pacific (600W PSU)	APS600W-100AJS
Americas, Europe (1,200W PSU)	APS1200W-100NES
M4300-28G	CSM42205 100NES
Americas, Europe Asia Pacific	GSM4328S-100NES GSM4328S-100AJS
Asia Pacific China	GSM4328S-100AJS GSM4328S-100PRS
China	GSIM43285-100PR5
M4300-28G-PoE+ with 550W PSU	
Americas, Europe	GSM4328PA-100NES
Asia Pacific	GSM4328PA-100AJS
China	GSM4328PA-100PRS
M4300-28G-PoE+ with 1,000W PSU	
Americas, Europe	GSM4328PB-100NES
Asia Pacific	GSM4328PB-100AJS
China	GSM4328PB-100PRS
M4300-52G	
Americas, Europe	GSM4352S-100NES
Asia Pacific	GSM4352S-100AJS
China	GSM4352S-100PRS
M4300-52G-PoE+ with 550W PSU	
Americas, Europe	GSM4352PA-100NES
Asia Pacific	GSM4352PA-100AJS
China	GSM4352PA-100PRS
M4300-52G-PoE+ with 1,000W PSU	COMADEDED 400NEC
Americas, Europe	GSM4352PB-100NES
Asia Pacific China	GSM4352PB-100AJS GSM4352PB-100PRS
CHIHA	JOINHOOZED-TUUPKS

Front View

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Lehenen her bester sollte so

M4300-24X
M4300-48X
M4300-8X8F M4300-12X12F M4300-24X24F
M4300-28G M4300-52G
M4300-28G-PoE+
M4300-52G-PoE+
M4300-96X

Rear View

M4300-24X
M4300-48X
M4300-8X8F M4300-12X12F
M4300-24X24F
M4300-28G
M4300-52G
M4300-28G-PoE+
M4300-52G-PoE+
M4300-96X

* 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.

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