

## ProSAFE® Intelligent Edge Managed Switches

Unbeatable combination of performance, security and convergence



M4100 series

The Intelligent Edge M4100 series switches are NETGEAR fully managed switches for 100M/1G access layer in SMB, Small Enterprise and Campus networks. The M4100 series delivers the best combination of performance, security and convergence at a high-value price point—unlike competitive, entry-level “SMB” solutions. Redundant power supply options (RPS), full PoE+ external power supply options (EPS), Private VLANs, LLDP-MED and MVR take a scalable, future-proof approach to delivering network services for Wireless access points, IP phones and IP cameras infrastructures.

### NETGEAR Intelligent Edge M4100 series key features:

- Broad portfolio of access layer solutions, ranging from 12 ports to 50 ports Fast and Gigabit Ethernet
- 802.3af PoE and 802.3at PoE+ best fit, ranging from 120W to 1,440W power budget per switch
- IPv4 routing in Layer 2+ package (L3 static routing) with IPv4/IPv6 ACLs and QoS
- High value L2/L3 tables with 16K MAC, 512 ARP/NDP, 9K jumbo frames, 1K VLANs, 64 static L3 routes
- Redundant power supply option for uninterruptible operation (RPS)
- External power supply option for PoE and PoE+ full-power applications (EPS)
- Green Ethernet compliance for maximum power efficiency

### NETGEAR Intelligent Edge M4100 series software features:

- Automatic multi-vendor Voice over IP prioritization based on SIP, H323 and SCCP protocol detection
- Voice VLAN and LLDP-MED for automatic IP phones QoS and VLAN configuration
- IPv4/IPv6 Multicast filtering with IGMP and MLD snooping, Querier mode and MVR for simplified video deployments
- Advanced classifier-based hardware implementation for L2 (MAC), L3 (IP) and L4 (UDP/TCP transport ports) inbound security and prioritization

### NETGEAR Intelligent Edge M4100 series link aggregation and channeling features:

- Flexible Port-Channel/LAG (802.3ad) implementation for maximum compatibility, fault tolerance and load sharing with any type of Ethernet channeling
- Including static (selectable hashing algorithms) or dynamic LAGs (LACP)

### NETGEAR Intelligent Edge M4100 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 implementation
- Selectable serial RS232 DB9 and Mini-USB port for management console
- Standard USB port for local storage, 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 Intelligent Edge M4100 series warranty and support:

- NETGEAR ProSAFE Lifetime Hardware Warranty\*
- Included Lifetime Online Chat Technical Support
- Included Lifetime Next Business Day Hardware Replacement



## Hardware at a Glance

	FRONT						REAR					
Model Name	Form Factor	10/100 Base-T RJ45 ports	10/100/1000 Base-T RJ45 ports	100/1000X Fiber SFP ports	PoE 802.3af PoE+ 802.3at	Storage (image, config)	Power Supply/ Powered by PoE	RPS (connector)	PoE budget (PSU/ Pass through)	PoE budget (with EPS)	Management console	Model number
M4100-50-POE	Rack mount	48	2	2 (shared)	48 PoE 802.3af	1 x USB	Internal/ No	1 (RPS or EPS)	380W	Up to 740W (EPS)	1 x RS232 DB9,  1 x Mini-USB  (selectable)	FSM7250P
M4100-D12G	Desktop	-	12	2 (shared)	-		External/ Yes	PD mode	-	-		GSM5212
M4100-D12G-POE+	Desktop	-	12	4 (shared)	10 PoE+ 802.3at		Internal/ Yes	PD mode	120W/ 25W	-		GSM5212P v1h2
M4100-12GF	Rack mount	-	12	12 (shared)	4 PoE+ 802.3at		Internal/ No	1 (RPS)	150W	-		GSM7212F v1h2
M4100-26G	Rack mount	-	26	4 (shared)	-		Internal/ No	1 (RPS)	-	-		GSM7224 v2h2
M4100-50G	Rack mount	-	50	4 (shared)	-		Internal/ No	1 (RPS)	-	-		GSM7248 v2h2
M4100-26G-POE	Rack mount	-	26	4 (shared)	24 PoE 802.3af		Internal/ No	1 (RPS or EPS)	192W	Up to 380W (EPS)		GSM7226LP
M4100-24G-POE+	Rack mount	-	24	4 (shared)	24 PoE+ 802.3at		Internal/ No	1 (RPS or EPS)	380W	Up to 720W (EPS)		GSM7224P v1h2
M4100-50G-POE+	Rack mount	-	50	4 (shared)	48 PoE+ 802.3at		Internal/ No	1 (RPS or EPS)	380W	Up to 1,440W (EPS)		GSM7248P

## Software at a Glance

	LAYER 2+ PACKAGE								
Model Name	Management	IPv4/IPv6 ACL and QoS, DiffServ	IPv4/IPv6 Multicast Filtering	Auto-VoIP	Green Ethernet	VLANs	Convergence	IPv4 Unicast Static Routing	Model Number
M4100 series	Web GUI; HTTPs CLI; Telnet; SSH SNMP, MIBs RSPAN	L2, L3, L4, ingress 1 Kbps	IGMP and MLD Snooping, IGMP and MLD Querier, MVR	Yes	EEE (802.3az) or Energy Detect Mode	Static, Dynamic, Voice, MAC, Subnet, Protocol-based, QinQ, Private VLANs	LLDP-MED, RADIUS, 802.1X, timer	Yes (Port-based, Subnet, VLANs, Loopback)	all models

## Performance at a Glance

	TABLE SIZE									
Model Name	Packet buffer	CPU	ACLs	MAC address table ARP/NDP table VLANs DHCP server	Fabric	Latency	Static Routes IP interfaces	Multicast IGMP Group membership	sFlow	Model number
M4100 series all models	12 Mb	600Mhz 128M RAM 32M Flash	50 ACLs 512 rules (ingress)	16K MAC 512 ARP/NDP VLANs: 1K DHCP: 16 pools 1,024 max leases	Up to 100Gbps all models line-rate	1G <3.91 µs  100M <10.194 µs	64 static routes  64 IP interfaces  IPv4	1K	32 samplers 52 pollers 8 receivers	all models

\* 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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