ProSAFE® Intelligent Edge Managed Switches

Unbeatable combination of performance, security and convergence

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

*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* | *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 | Internal/No | 1 (RPS or EPS) | 380W | Up to 740W (EPS) | - | - | FSM725OP |
M4100-D12G | Desktop | - | 12 | 2 (shared) | - | - | External/Yes | PD mode | - | - | - | GSM5212 |
M4100-D12G-POE+ | Desktop | - | 12 | 4 (shared) | 10 PoE+ 802.3at | Internal/No | PD mode | 120W/25W | - | - | GSM7212F v1h2 |
M4100-12GF | Rack mount | - | 12 | 12 (shared) | 4 PoE+ 802.3at | Internal/No | 1 (RPS) | 150W | - | - | GSM7224 v1h2 |
M4100-26G | Rack mount | - | 26 | 4 (shared) | - | Internal/No | 1 (RPS) | - | - | - | GSM7226LP |
M4100-50G | Rack mount | - | 50 | 4 (shared) | - | Internal/No | 1 (RPS) | - | - | - | GSM7248B v1h2 |
M4100-26G-POE | Rack mount | - | 26 | 4 (shared) | 24 PoE 802.3af | Internal/No | 1 (RPS or EPS) | 192W | Up to 380W (EPS) | - | - | GSM7224P v1h2 |
M4100-24G-POE+ | Rack mount | - | 24 | 4 (shared) | 24 PoE+ 802.3at | Internal/No | 1 (RPS or EPS) | 380W | Up to 720W (EPS) | - | - | GSM7248P |
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 |

### REAR

*Model Name* | *1 x USB* | *1 x Mini-USB* |
--- | --- | --- |
M4100-50-POE | - | - |
M4100-D12G | - | - |
M4100-D12G-POE+ | - | - |
M4100-12GF | - | - |
M4100-26G | 1 | - |
M4100-50G | 1 | - |
M4100-26G-POE | - | - |
M4100-24G-POE+ | - | - |
M4100-50G-POE+ | - | - |

## 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 | IPv4 IPv6 | IPv4/IPv6 | Yes | EEE (802.3az) or Energy Detect Mode | IPv4 Static Routes | IPv4 routed | IPv4 (Port-based, Subnet, VLANs, Loopback) | all models |

## Performance at a Glance

### TABLE SIZE

| Model Name | Packet buffer | CPU | ACLs | MAC address table ARP/NPD 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 112 rules (ingress) | 16K MAC 512 ARP/NPD 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 |