NETGEAR®



ProSAFE® Intelligent Edge Managed Switches

Unbeatable combination of performance, security and convergence for voice, video and data networking solutions at an extremely attractive price point





M4100 series

The M4100 series delivers an unbeatable combination of performance, security and ease-of-use for converged networking. Due to the rapid proliferation of multimedia applications, small and mid-sized organizations today have security, control and reliability requirements similar to those of large enterprises. Only NETGEAR is offering reliable, affordable and simple Managed switches packed with higher availability (RPS protection), investment protection (EPS upgrade) and scalability features that have so far been reserved only for enterprise-class VoIP, IP Surveillance and Wireless deployments. NETGEAR Managed switches dramatically reduce the lifecycle costs with Lifetime Hardware Warranty*, Lifetime Technical Support, and Lifetime Next Business Day Replacement.









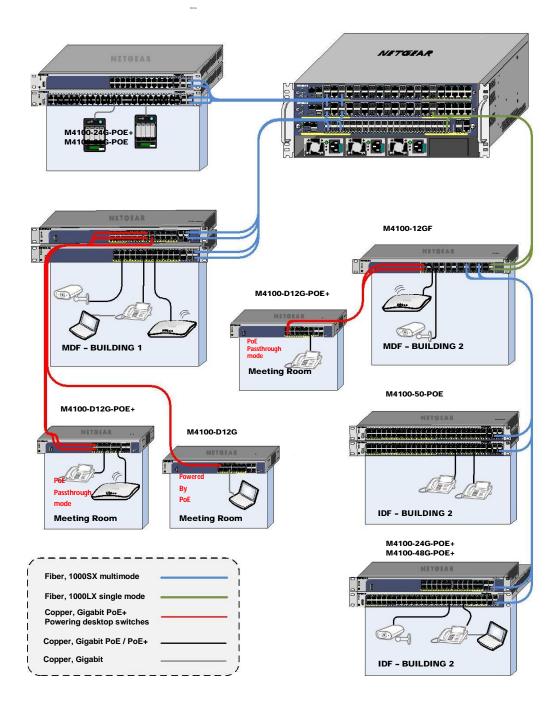
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Why M4100 series for the edge of small enterprise networks?

Because the M4100 series offers up to 3x better value:

- Combining superior resiliency and advanced security, NETGEAR Intelligent Edge managed switches feature comprehensive Layer 2, Lite Layer 3 and Layer 4 switching; including fiber aggregation capabilities. Unlike other 'cost conscious' products from competitors, the NETGEAR Intelligent Edge series has been designed from the ground up for organizations requiring intelligence at the network edge.
- Affordable and reliable, these access layer switches win as a proficient component of secure, converged voice, video and data networking solutions.



1. Versatile, Protected and Expendable Power

The M4100 series are the first affordable managed switches with both redundant and external power supply capabilities - key for critical applications such as VoIP, IP surveillance and Wireless access points. PoE devices gobble increasing amounts of PoE power, yet existing SMB switching solutions from other vendors don't scale to full power. Although most servers in SMB networks have dual power supplies, switches in SMB networks have not – until now.

Select desktop switches in the M4100 series can be powered by PoE as a cost-effective solution when there is no existing electrical wiring or power outlets, as the switch can draw power directly from the wiring closet. The flexibility of a PoE switch is also convenient for meeting rooms and open spaces where visible electrical wiring is unsightly or impractical. One PoE+ downlink (30W) from the upstream switch is sufficient for the standard operation of the M4100-D12G and M4100-D12G-POE+ switches. This also increases resiliency for critical installations: the Power over Ethernet PD connection on these switches also doubles as a redundant power supply (RPS) should the switch be locally powered.

Innovative PoE passthrough technology even lets M4100-D12G-POE+ power local PoE PD devices - redistributing PoE budget from the upstream switch. Up to 25W of power can be available for local PD devices - extending the reach of PoE deployments beyond the 100-meter or 328-feet bar: the M4100-D12G-POE+ can function as a "PoE repeater" for powering remote IP cameras, Wireless access points, etc.

For all other rackmount Power over Ethernet models in the NETGEAR Intelligent Edge M4100 series, in addition to their built-in PSU providing more PoE power than competitive solutions at a similar price point, the NETGEAR Intelligent Edge M4100 series is the only one allowing for an additional PoE power "upgrade" via external power supply; immediately or at later times. Short story, all rackmount switches in the NETGEAR M4100 series are either PoE Full Power capable already or PoE Full Power capable when drawing external power from the RPS4000. All 24-port and 48-port models can scale up to 802.3af PoE full power or 802.3at PoE+ full power simultaneously for all ports. This is real investment protection.

2. Security and Control

Enhanced security includes network access control and isolation for improved convergence of voice, video and data: dynamic 802.1x VLAN assignment mode, including Dynamic VLAN creation mode and Guest VLAN/Unauthenticated VLAN are supported for rigorous user and equipment policy enforcement from a RADIUS server. The RADIUS server can also be the Network Policy Server (NPS) in Microsoft® Windows Server™ 2008 or 2012, when in an Active Directory domain.

Up to 48 clients (802.1x) per port are supported, including the authentication of a user's domain, in order to facilitate convergent deployments. When IP phones connect PCs on their bridge, IP phones and PCs authenticate on the same switch port but under different VLAN assignment policies (Voice VLAN versus data VLAN) - providing administrators with greater flexibility during deployment and policy enforcement.

For 802.1x unaware clients, 802.1x MAC Address Authentication Bypass (MAB) is a great alternative: when 802.1x unaware clients try to connect, the switch sends their MAC addresses to the authentication server. When checked, the RADIUS server returns the access policy and VLAN assignment to the switch for each client.

Enhanced security also includes better network iso lation with Private VLANs, providing Layer 2 isolation between ports that share the same broadcast domain. A VLAN broadcast domain can be partitioned into smaller point-to-multipoint subdomains across switches in the same Layer 2 network.

This is useful for IP camera deployments, or in the DMZ when servers are not supposed to communicate with each other but need to communicate with a router. Private VLANs remove the need for more complex port-based VLANs with respective IP interface/subnets and associated L3 routing.

3. Reliability

Learn how the NETGEAR M4100 series delivers more for less: all models provide much longer MTBF (average lifetime) thanks to better/higher quality components and circuitry.

For instance, the desktop 8-port PoE Fast Ethernet M4100-D10-POE (FSM5210P) is predicted to have an average mean time between failure of 579,985 hours, or 66 years at an ambient standard 25°C temperature (77°F). The rackmount 24-port PoE Gigabit Ethernet M4100-26G-POE (GSM7226LP) is to predicted to have an average mean time between failure of 437,199 hours, more than 49 years. This is nearly double the reliability of the closest competitive solutions in this price band.

Conclusion

The M4100 series delivers an unbeatable combination of performance, security and convergence for voice, video and data networking solutions.

Due to the wide adoption of virtualization, the convergence of voice, video, and data and the rapid proliferation of bandwidth-intensive applications, small and mid-sized businesses, hospitals and schools today have security, control and reliability needs similar to those of large enterprises. For approximately the same price as low-end solutions currently on the market aimed at SMBs, NETGEAR is offering high-end features that have so far been reserved only for enterprise-class offerings available at double or triple the price point.

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









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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 | | Internal/No | 1 (RPS or EPS) | 380W | Up to 740W (EPS) | 1 x RS232 DB9, | 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) | - | 1 x USB | Internal/No | 1 (RPS) | - | - | 1 x Mini-USB | GSM7224 v2h2 |
| M4100-50G | Rack mount | - | 50 | 4 (shared) | - | | Internal/No | 1 (RPS) | - | - | (selectable) | 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 |



M4100-24G-POE+



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