

Netgear ProSafe GSM7226LP-100NES - M4100-26G-POE Managed Switch



Product Name: Netgear ProSafe GSM7226LP-100NES - M4100-26G-POE Managed Switch

Manufacturer: -

Model Number: GSM7226LP

Please Note: This product has been discontinued. For an alternative, please see the other Netgear Routers and Switches.

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The Netgear ProSafe M4100-26G-POE Managed Switch is ideal for all organisations considering reliable, affordable and simple access layer switching with CLI, advanced scripting capabilities and Layer 3 routing. Netgear ProSafe M4100-26G-POE Managed Switch Key Features

- Broad portfolio of access layer solutions, ranging from 12 ports Fast Ethernet to 50 ports 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)

As a cost effective component of converged voice, video data and network solutions, the Netgear ProSafe M4100-26G-POE Managed Switch delivers a secure edge in commercial buildings and campus LAN environments: PoE (802.3af) and PoE+ (802.3at) versions of M4100 series are perfect for Wireless access points, IP telephony and IP surveillance deployments.

Layer 2+ with static routing

The M4100-26G-POE comes with Port-based / VLAN-based / Subnet-based "static routing" Layer 2+ versions and L3 fixed routes to the next hop towards the destination network are added to the routing table and the L3 routing is wire-speed in M4100 series hardware with 64 static routes (IPv4).

Engineered for convergence

The Automatic multi-vendor Voice over IP prioritisation is based on SIP, H323 and SCCP protocol.

The M4100-26G-POE also have Voice VLAN and LLDP-MED for automatic IP phones QoS and VLAN configuration and Advanced classifier-based hardware for L2, L3, L4 security and prioritisation. In addition, it includes Advanced Multicast filtering with IGMP and MLD snooping and querier modes.

High value performance and IPv6 ready

The M4100-26-POE features 16K MAC addresses; up to 100Gbps switching fabric; 9K jumbo frames; Green Ethernet as well as IPv4/IPv6 ingress traffic filtering (ACLs) and prioritization (QoS - DiffServ).

Netgear ProSafe M4100-26G-POE Managed Switch- Technical Specification

Physical Interfaces

- Auto-sensing RJ45 10/100/1000: 26
- Auto-sensing SFP ports 100/1000Base-X: 4 (shared)
- Storage Port: 1 x USB Firmware, Configuration Files
- Power Supply: Fixed, internal
- RPS/ EPS connector: 1
- Console port (selectable): Serial RS232 DB9, Mini-USB
- Physical security: 1 Kensington Lock Slot
- Total Gigabit Port Count: 26 ports total

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Power over Ethernet

- PoE ports 802.af: 24
- internal PoE budget: 192W
- PoE budget with EPS: 380W with EPS (RPS24000)
- Features support: IEEE 802.3af (up to 15.4W per port)
- PoE timer/schedule (week,days, hours) Convenient for Wireless Access Points schedules

Processor/ Memory

- Processor (CPU): Broadcom BCM53003 @ 600MHz
- System memory (RAM): 128 MB
- Code storage (flash): 32 MB, Dual firmware image, dual configuration file
- Packet Buffer Memory: 12 Mb, Dynamically shared across only used ports

Performance Summary

- Switching fabric: 52 Gbps
- Throughput: 38.690 Mpps
- Green Ethernet: Energy Efficient Ethernet (EEE), IEEE 802.3az Energy Efficient Ethernet Task Force compliance
- Forwarding Mode: Store-and-forward
- Latency (64-byte frames, 100 Mbps, Copper): <10.194 μs
- Latency (64-byte frames, 1Gbps, Copper): <3.91 μs
- Addressing: 48-bit MAC address
- Address database size: 16,000 MAC addresses
- Number of VLANs: 1,024 VLANs (802.1Q) simultaneously
- Number of multicast groups filtered (IGMP): 1K
- Number of Link Aggregation Groups (LAGs - 802.3ad): 12 LAGs with up to 8 ports per group
- Number of hardware queues for QoS: 8 queues
- Number of static routes (IPv4): 64
- Number of IP interfaces (port or VLAN): 64
- Jumbo frame support: up to 9K packet size
- Acoustic noise (ANSI-S10.12) @ 25 °C ambient (77 °F): <36.6 dB
- Heat Dissipation (BTU) (Maximum): 932 Btu/hr
- Mean Time Between Failures (MTBF) @ 25 °C ambient (77 °F): 437,199 hours (~49.9 years)
- Mean Time Between Failures (MTBF) @ 55 °C ambient (131 °F): 117,763 hours (~13.4 years)

LEDs

- Per port: Speed, Link, Activity, PoE
- Per device: Power, Fan, RPS or PD Mode, Max PoE

Physical Specifications

- Dimensions (Width x Depth x Height): 440 x 257 x 43.2 mm (17.3 x 10.12 x 1.7 in)
- Weight: 3.79 kg (8.36lb)

Power Consumption (all ports used, line-rate traffic, max PoE)

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• 272.90W max

Environmental Specifications

• Operating: Temperature: 32° to 122°F (0° to 50°C)

• Operating Humidity: 90% maximum relative humidity, non-condensing

• Operating Altitude: 10,000 ft (3,000 m) maximum

• Storage Temperature: -4° to 158°F (-20° to 70°C)

• Storage Humidity: 95% maximum relative humidity, non-condensing

• Storage altitude: 10,000 ft (3,000 m) maximum

Package Content

• ProSAFE® M4100 series switch

• Power cord

• Rubber footpads for tabletop installation

• Rubber caps for the SFP sockets

• Mini-USB console cable with one Mini B connector and one type A connector

• Resource CD with links to online documentation: USB drivers for the Mini-USB console;
Switch MIB; ProSAFE M4100 Managed

• Switch Quick Installation Guide, ProSAFE M4100 Hardware Installation Guide; ProSAFE
Managed Switch Command-Line Interface

• (CLI) User Manual; ProSAFE M4100 and M7100 Managed Switches Administration Manual

Please Enquire