

Netgear ProSafe GSM7212F-100NES - M4100-12GF Managed Switch

Product Name: Netgear ProSafe GSM7212F-100NES - M4100-12GF Managed Switch

Manufacturer: -

Model Number: GSM7212F

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

Netgear ProSafe M4100-12GF Managed Switch

The Netgear ProSafe M4100-12GF 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 M4100-12GF Managed Switch Key Features

- 1/2 Port-based/ VLAN-based/Subnet-based "static routing"; Layer 2+ versions
- 1/2 12 x SFP version for aggregation, Layer 2+
- 1/2 12 shared 1000Base-T
- 1/2 Internal PSU with RPS
- 1/2 4 ports PoE+ with 150W budget

As a cost-effective component of converged voice, video and data networking solutions, the M4100-12GF delivers a secure edge in commercial buildings and campus LAN environments: The M4100-12GF is perfect for Wireless access points, IP telephony and IP surveillance deployments. Layer 2+ with static routing

M4100-12GF 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. They 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, M4100-12GF includes Advanced Multicast filtering with IGMP and MLD snooping and querier modes.

High-value performance and IPv6 ready

The M4100-12GF 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 M4100-12GF Managed Switch - Technical Specification

Physical Interfaces

- 1/2 Auto-sensing RJ45 10/100/1000: 12
- 1/2 Auto-sensing SFP ports 100/1000Base-X: 12 (shared)
- 1/2 Console port (selectable): Mini-USB
- 1/2 Storage Port: 1 z USB Firmware, Configuration Files
- 1/2 Power Supply: Fixed, internal
- 1/2 RPS/ EPS connector: 1
- 1/2 Console port (selectable): Serial RS232 DB9
- 1/2 1 Kensington Lock Slot
- 1/2 Gigabit: 12 ports total

Power over Ethernet

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- PoE+ ports 802.3at: 4
- Internal PoE budget: 150W
- IEEE 802.3at (up to 30W per port)
- IEEE 802.3at Layer 2 (LLDP) method
- IEEE 802.3at 2-event classification

Processor/ Memory

- Processor (CPU): Broadcom BCM53003 @ 600MHz
- System memory (RAM): 123MB
- 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: 24 Gbps
- Throughput: 17,857 Mpps
- Forwarding mode: Store-and-forward
- Latency(64-byte frames, 100 Mbps, Copper): $10.194 \mu\text{s}$
- Latency (64-byte frames, 1 Gbps, Copper): $3.91 \mu\text{s}$
- 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 P interfaces(port of VLAN): 64
- Jumbo frame support: up to 9k packet size
- Acoustic noise (ANSI-S10.12) @ 25 °C ambient (77 °F): 30 dB
- Heat Dissipation: 548 Btu/hr
- Mean Time Between Failures(MTBF) : 670,956 hours (~76.6 years)190,562 hours (~21.8 years)ion Manual

Physical Specifications

- Dimensions: 328 x 169 x 43.2 mm (12.91 x 6.65 x 1.7 in)
- Weight: 3.665 kg (8.08 lb)

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

Warranty

- ProSafe Lifetime Hardware Warranty: Included, lifetime
- 90 days of technical support via phone and email: Included, 90 days after purchase
- Lifetime Technical support through online chat: Included, lifetime

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• Lifetime Next Business Day Hardware replacement: Included, lifetime

LEDs

• Per port: Speed, Link, Activity, PoE

• Per device: Power, Fan, RPS or PD Mode, Max or PoE

Safety

• CE mark, commercial

• CSA certified (CSA 22.2 #950)

• UL listed (UL 1950)/cUL IEC 950/EN 60950

• CB

• CCC

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
