

# 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

าั¿½ Port-based/ VLAN-based/Subnet-based &Idquo; static routing" Layer 2+ versions

� 12 x SFP version for aggregation, Layer 2+

� 12 shared 1000Base-T

آخ∑ Internal PSU with RPS

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-vlaue performance and IPv6 ready

The M4100-12GF features16K 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

ï¿1/2 Auto-sensing RJ45 10/100/1000: 12

آذِارِ Auto-sensing SFP ports 100/1000Base-X: 12 (shared)

ï¿1/2 Console port (selectable): Mini- USB

� Storage Port: 1 z USB Firmware, Configuration Files

� Power Supply: Fixed, internal

ï¿1/2 RPS/ EPS connector: 1

i¿1/2 Console port (selectable): Serial RS232 DB9

� 1 Kensington Lock Slot � Gigabit: 12 ports total

Power over Ethernet



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

� 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
- ï¿1/2 System memory (RAM): 123MB
- ī¿½ Code storage (flash): 32 MB, Dual firmware image, dual configuration file ī¿½ Packet Buffer Memory: 12 MB, Dynamically shared across only used ports

#### Performance Summary

- � Switching Fabric: 24 Gbps � Throughput: 17,857 Mpps
- าั¿1/2 Forwarding mode: Store-and-forward
- T¿½ Latency(64-byte frames, 100 Mbps, Copper): <10.194 &mu;s
  T¿½ Latency (64-byte frames, 1 Gbps, Copper): &lt; 3.91&mu;s
- � Addressing: 48-bit MAC address
- Ti21/2 Address database size: 16,000 MAC addresses
- 12.1/2 Number of VLANS: 1,024 VLANs (802.1Q) simultaneously
- تَىٰ Number of multicast groups filtered (IGMP): 1K
- าั¿½ Number of Link Aggregation Groups (LAGs- 802.3ad): 12 LAGs with up to 8 ports per group
- تزار Number of hardware queues for QoS: 8 queues
- � Number of static routes (IPv4) 64
- � Number of P interfaces(port of VLAN): 64
- آزا Jumbo frame support: up to 9k packet size
- آذِ1⁄2 Acoustic noise (ANSI-S10.12) @ 25 °C ambient (77 °F): <30 dB
- ï¿1/2 Heart 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

- $\ddot{i}$  Dimensions: 328 x 169 x 43.2 mm (12.91 x 6.65 x 1.7 in)
- ï¿1/2 Weight: 3.665 kg (8.08 lb)

### **Environmental Specifications**

- آذِ½ Operating temperature: 32° to 122°F (0° to 50°C)
- าั¿½ Operating Humidity: 90% maximum relative humidity, non-condensing
- i¿½ Operating altitude: 10,000 ft (3,000 m) maximum
- าั¿½ Storage temperature: 4° to 158°F (–20° to 70°C)
- រី¿½ Storage humidity: 95% maximum relative humidity, non-condensing
- Ti, 1/2 Storage altitude: 10,000 ft (3,000 m) maximum

#### Warranty

- า๊¿½ ProSafe Lifetime Hardware Warranty: Included, lifetime
- Ti21/2 90 days of technical support via phone and email: Included, 90 days after purchase
- ī¿½ Lifetime Technical support through online chat: Included, lifetime



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

آذِرًا Lifetime Next Business Day Hardware replacement: Included, lifetime

#### **LEDs**

� Per port: Speed, Link, Activity, PoE

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

### Safety

� CE mark, commercial

ï¿1/2 CSA certified (CSA 22.2 #950)

ï¿1/2 UL listed (UL 1950)/cUL IEC 950/EN 60950

� CB

ï¿⅓ CCC

#### Package content

� ProSAFE® M4100 series switch

� Power cord

� Rubber footpads for tabletop installation

� Rubber caps for the SFP sockets

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

آذِ½ Resource CD with links to online documentation: USB drivers for the Mini-USB console; Switch MIB; ProSAFE M4100 Managed

آذًا½ Switch Quick Installation Guide, ProSAFE M4100 Hardware Installation Guide; ProSAFE Managed Switch Command-Line Interface

าั¿¼ (CLI) User Manual; ProSAFE M4100 and M7100 Managed Switches Administration Manual

## **Please Enquire**