

Netgear ProSafe GSM7248-200EUS - M4100-50G Managed Switch

Product Name: Netgear ProSafe GSM7248-200EUS - M4100-50G Managed Switch

Manufacturer: -

Model Number: GSM7248

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

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The Netgear ProSafe M4100- 50G 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 M4100-50G 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 M4100-50G 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 M4100-50G 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 prioritization is based on SIP, H323 and SCCP protocol. The M4100-50G 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 prioritization. In addition, M4100-50G includes Advanced Multicast filtering with IGMP and MLD snooping and querier modes

High value performance and IPv6 ready

The M4100-50G 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 M4100-50G Managed Switch- Technical Specification

Physical Interfaces

- Auto-sensing RJ45 10/100/1000: 50

- 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

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• Physical security: 1 Kensington Lock Slot
• Total Gigabit Port Count: 50 ports total

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: 100 Gbps
• Throughput: 74.405 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): $\leq 10.194 \mu\text{s}$
• Latency (64-byte frames, 1Gbps, Copper): $\leq 3.91 \mu\text{s}$
• 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 IP interfaces (port or VLAN): 64
• Jumbo frame support: up to 9K packet size
• Acoustic noise (ANSI-S10.12) @ 25 °C ambient (77 °F): $\leq 37.2\text{dB}$
• Heat Dissipation (BTU) (Maximum): 169 Btu/hr
• Mean Time Between Failures (MTBF) @ 25 °C ambient (77 °F): 489,311 hours (~55.9 years)
• Mean Time Between Failures (MTBF) @ 55 °C ambient (131 °F): 152,639 hours (~17.4 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: 3.63 kg (8.36lb)

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

• 49.50W max

Environmental Specifications

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

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- 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
