

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.

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

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

ϊ¿½ Broad portfolio of access layer solutions, ranging from 12 ports Fast Ethernet to 50 ports Gigabit Ethernet

าั¿½ 802.3af PoE and 802.3at PoE+ best fit, ranging from 120W to 1,440W power budget per switch

ัเ¿½ IPv4 routing in Layer 2+ package (L3 static routing) with IPv4/IPv6 ACLs and QoS
ัเ¿½ High value L2/L3 tables with 16K MAC, 512 ARP/NDP, 9K jumbo frames, 1K VLANs, 64 static L3 routes

ī¿½ 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

ï¿1/2 Auto-sensing RJ45 10/100/1000: 50

12/2 Auto-sensing SFP ports 100/1000Base-X: 4 (shared)

12.1/2 Storage Port: 1 x USB Firmware, Configuration Files

� Power Supply: Fixed, internal

� RPS/ EPS connector: 1

า๊¿½ 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

ï¿1/2 System memory (RAM): 128 MB

آذِرُ Code storage (flash): 32 MB, Dual firmware image, dual configuration file

ī సై Packet Buffer Memory: 12 Mb, Dynamically shared across only used ports

Performance Summary

ï¿⅓ Switching fabric: 100 Gbps

� Throughput: 74.405 Mpps

าั¿½ 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

آذِرُ Latency (64-byte frames, 1Gbps, Copper): <3.91 μs

� Addressing: 48-bit MAC address

� Address database size: 16,000 MAC addresses

آذًا Number of VLANs: 1,024 VLANs (802.1Q) simultaneously

17.1/2 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

ï¿1/2 Number of hardware queues for QoS: 8 queues

ï¿1/2 Number of static routes (IPv4): 64

آذ1/2 Number of IP interfaces (port or VLAN): 64

آزا Jumbo frame support: up to 9K packet size

� Acoustic noise (ANSI-S10.12) @ 25 °C ambient (77 °F): <37.2dB

تز½ 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

آذِر Per port: Speed, Link, Activity, PoE

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

Physical Specifications

ϊέ½ Dimensions (Width x Depth x Height): 440 x 257 x 43.2 mm (17.3 x 10.12 x 1.7 in)

ï¿1/2 Weight: 3.63 kg (8.36lb)

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

ï¿⅓ 49.50W max

Environmental Specifications

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



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- าั¿½ Operating Humidity: 90% maximum relative humidity, non-condensing
- � Operating Altitude: 10,000 ft (3,000 m) maximum
- Temperature: 4° to 158° F (– 20° to 70° C)
- าั¿½ Storage Humidity: 95% maximum relative humidity, non-condensing
- � Storage altitude: 10,000 ft (3,000 m) maximum

Package Content

- تز1/2 ProSAFE® M4100 series switch
- � Power cord
- � Rubber footpads for tabletop installation
- ï¿⅓ Rubber caps for the SFP sockets
- ī¿½ Mini-USB console cable with one Mini B connector and one type A connector
- \ddot{i} $^{\prime}$ 2 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
- าั¿¼ (CLI) User Manual; ProSAFE M4100 and M7100 Managed Switches Administration Manual

Please Enquire