

ProSafe[®] 12-, 24- and 48-port Gigabit L2 Managed Switches **GSM7212, GSM7224, GSM7248**

High-speed, Layer 2 Managed Gigabit Switching





NETGEAR Product LIFETIME WARRANTY

1-888-NETGEAR (638-4327) Email: info@NETGEAR.com

ProSafe® 12-, 24-, 48-port Gigabit L2 Managed Switches

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Physical Interfaces

 RJ-45 Connectors for 10BASE-T, 100BASE-TX, and 1000BASE-T (Auto Uplink[™] on all ports):

GSM7212 12 ports

GSM7224 24 ports

GSM7248 48 ports

 Small form-factor pluggable (SFP) modules for fiber Gigabit Ethernet interfaces:

GSM7212 12 slots

GSM7224 4 slots

GSM7248 4 slots

- RS-232 Console Port

Layer 2 Services

- IEEE 802.1Q Static VLAN (512)
- IEEE 802.1p Class of Service (CoS)
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1v Protocol VLAN & Port VLAN
- IEEE 802.1 QinQ
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s Multiple Spanning Tree
- IEEE 802.3ad Link Aggregation (LACP)
- IEEE 802.1x Port Access Authentication
- IGMP v1, v2 Snooping Support
- Network Storm Protection including Broadcast, multicast and unicast traffic
- Static multicast filtering
- Ingress Rate Limit in 1Kbps increments
- Weighted Round Robin (WRR) Query Technology

Switch Management Specifications

- SNMP v1, v2c, v3 with multiple IP addresses
- RFC 1157, 1902-1907
- RFC 768 UDP
- UDP Relay
- RFC 854-859 Telnet
- RFC 951 BootP
- RFC 1213 MIB II
- RFC 1757 RMON groups 1,2,3, and 9
- RFC 1215 SNMP Traps
- RFC 1493 Bridge MIB
- RFC 1643 Ethernet Interface MIB
- RFC 1534 DHCP and BootP Interoperation
- RFC 2131, 2132 DHCP and BootP
- RFC 2865 RADIUS (both switch and management access)
- RFC 2866 RADIUS Accounting
- Private Enterprise MIB
- Port Mirroring Support (many to one)
- RFC 2236 IGMP v2
- IGMP Querier
- DiffServ QOS (RFC 2998)
- DHCP/Bootp Relay -primary and backup (RFC3046, option 82)
- RFC 2030 Simple Network Time Protocol (SNTP)
- SYSLOG
- Firmware upgrade via TFTP or HTTP
- Port Description

Performance Specifications

- Forwarding modes: Store-and-forward
 Bandwidth:
- GSM7212: 24 Gbps (non-blocking) GSM7224: 48 Gbps (non-blocking) GSM7248: 96 Gbps (non-blocking)
- Switch latency: 20 us for 64-byte frames (1G to 1G)
- System memory: 64 MB
- Packet buffer memory: 122 KB embedded memory per port
- Code Storage (Flash): 8 MB
- Address database size: 8K media access control (MAC) addresses
- Number of VLANs: 512 (1-4096)
- Number of trunks: 6
- Number of queues: 4
- Jumbo frame support: up to 9K packet size
- Acoustic noise: GSM7212: 41.6 dB GSM7224: 60 dB GSM7248: 47 dB
- Heat Dissipation:
 GSM7212: 28.24 BTU/hr
 GSM7224: 28.24 BTU/hr
 GSM7248: 28.24 BTU/hr
- Mean Time Between Failure (MTBF):
 > 57,000 hours (> 6 years)
- User Interfaces
- Command Line Interface (CLI) via console port (4 sessions)
- Web-based management via embedded HTTP server protected with Secured Sockets Layer
- (SSLv3) or Transport Layer Security (TLS v1)
- Telnet remote login (5 sessions) securable with Secure Shell (SSH v1.5, v2)

ProSafe® 12-, 24-, 48-port Gigabit L2 Managed Switches

• LEDs

Per port: Speed, link, activity
 Per device: Power, fan status

Network Standards Compatibility

- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.3x Flow Control

Physical Specifications

- Dimensions (w x d x h): 440 x 257 x 43 mm (17.32 x 10.2 x 1.7 in)
- Weight: 4.2 kg (9.2 lb)

• Environmental Specifications

- Operating temperature: 0° to 40° C (32 to 104° F)
- Storage temperature: -20° to 70° C (-4 to 158° F)
- Operating humidity: 90% maximum relative humidity, non-condensing
- Storage humidity: 95% maximum relative humidity, non-condensing
- Operating altitude: 3,000 m (10,000 ft) maximum
- Storage altitude: 3,000 m (10,000 ft) maximum

Electrical Specifications

- Power Consumption:
 GSM7212 31W maximum
 GSM7224 38W maximum
 GSM7248 38W maximum
- Electromagnetic Emissions
- CE mark
- EN 55022 Class A Emissions
- EN 55024 Immunity
- FCC Part 15 Class A
- VCCI Class A
- C-Tick

Electromagnetic Safety

- CE mark
- EN 60950-1
- UL/cUL 60950-1

Modules

- ProSafe AGM731F 1000BASE-SX SFP GBIC
- ProSafe AGM732F 1000BASE-LX SFP GBIC
- ProSafe AGM733 1000BASE-ZX SFP GBIC

Warranty

– NETGEAR Lifetime Warranty[†]

Package Contents

- ProSafe Gigabit L2 Managed Switch
- Null modem cable
- Rubber footpads
- Power cable
- Rack-mount kit
- Installation guide
- Resource CD-ROM
- Warranty/support information card

Ordering Information

- North America
- GSM7212NA
- GSM7224NA
- GSM7248NA

• Europe

- GSM7212EU
- GSM7224EU
- GSM7248EU

• Asia

- GSM7212AU
- GSM7224AU
- GSM7248AU

• Japan

- GSM7212JP
- GSM7224JP
- GSM7248JP

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• Modules

- AGM731F
- AGM732F
- AGM733

ProSupport[®] Service Packs Available

GSM7212 & GSM7224

OnCall 24x7, Category 2

- Australia PMB0332-100AUS
- France PMB0332FS
- Germany PMB0332GR
- UK PMB0332UK
- US PMB0332NA

• XPressHW, Category 2

- Australia PRR0332-100AUS
- France PRR0332-100FSS
- Germany PRR0332-100GRS
- UK PRR03332-100UKS
- US PRR0332-100NAS
- GSM7248

OnCall 24x7, Category 3

- Australia PMB0333-100AUS
- France PMB0333FS
- Germany PMB0333GR
- UK PMB0333UK
- US PMB0333NA

• XPressHW, Category 3

- Australia PRR0333-100AUS
- France PRR0333-100FSS
- Germany PRR0333-100GRS
- UK PRR0333-100UKS
- US PRR0333-100NAS

D-GSM212/GSN224/GSM7248-2

NETGEAR[®]

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*Free basic installation support provided for 90 days from date of purchase. Advanced product features and configurations are not included in free basic installation support; optional premium support available.

[†]Lifetime warranty for product purchased after 05/01/2007. For product purchased before 05/01/2007, warranty is limited lifetime.