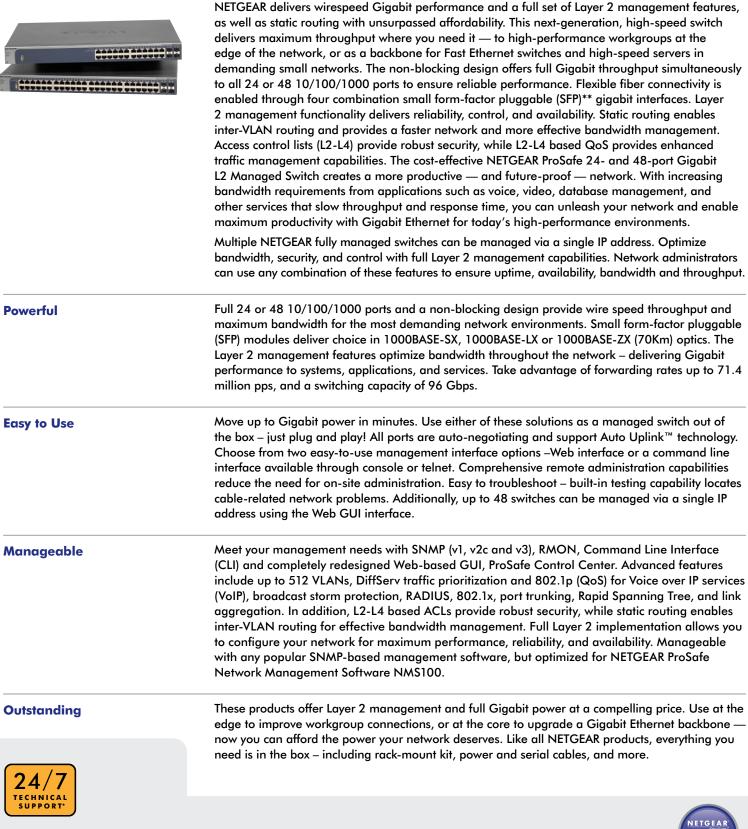


LIFETIME VARRANT

NBD¹ 3-yes

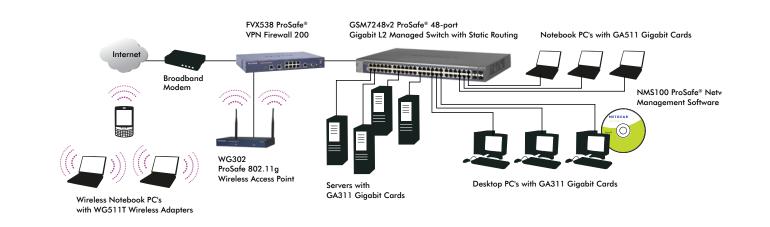
Up to 48 Switches Can Be Managed Via a Single IP Address!



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

ProSafe® 24- and 48-port Gigabit Enterprise Class L2 Managed Switches

GSM7224v2, GSM7248v2



Technical Specifications

Physical Interfaces

- RJ-45 Connectors for 10BASE-T, 100BASE-TX, and 1000BASE-T (Auto Uplink[™] on all ports): GSM7224v2 24 ports GSM7248v2 48 ports
- Small form-factor pluggable (SFP) modules for fiber Gigabit Ethernet interfaces:
 GSM7224v2 4 slots

GSM7248v2 4 slots

- RS-232 console port

Layer 2 Services

- IEEE 802.1Q static VLAN (1024)
- IEEE 802.1p Class of Service (CoS)
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1v Protocol VLAN &
- Port VLAN and MAC-based VLAN
- Voice VLAN
- Guest VLAN
- IP subnet-based VLAN
- IEEE 802.1 Q-in-Q
- 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, v3 snooping support
- IGMP querier
- Static multicast filtering
- Ingress rate limit in 1 Kbps increments
- Weighted round robin (WRR) queue technology
- MLD v1, v2 snooping
- Layer 3 Services
- Static routing
- ARP

Security

- Access Control Lists (ACL) MAC, IP, TCP
- ACLs: L2/L3/L4
- Network storm protection including broadcast multicast and unicast traffic
- Protected ports
- MAC filtering
- Private group
- CoS
- Diffserv QoS (RFC 2998)
- IEEE 802.1x port access authentication
- Port security
- DoS
- DHCP snooping
- IP Source Guard
- Dynamic ARP inspection
- RADIUS (RFC 2865)
- RADIUS accounting (RFC 2866)
- TACACS+

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
- Private Enterprise MIB
- Port mirroring support (many-to-one)

- DHCP/BOOTP relay-primary and backup (RFC 3046, option 82)
- RFC 2030 Simple Network Time Protocol (SNTP)
- DHCP server
- DHCP L2 relay
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
- DHCP relay (with backup servers)
- GARP/GVRP/GMRP
- SYSLOG
- TFTP, SFTP, HTTP, SCP, or local USB flash firmware upgrade
- Port description
- RFC 1519 CIDR
- Proxy ARP
- DNS lookup

• Single IP Address Management (firmware version 7.3 or higher)

- Manage up to 48 fully managed switches
- Feature can be used with the following models:
 - FSM726E, FSM7226RS, FSM7250RS
 - FSM7328S, FSM7352S, FSM7328PS, FSM7352PS
 - GSM7224R, GSM7248R
 - GSM7328S, GSM7328FS, GSM7352S
 - FSM726v3
 - GSM7224v2
- GSM7248v2

Performance Specifications

- Forwarding modes: Store-and-forward
 Bandwidth:
- GSM7224v2: 48 Gbps; 35.7 Mpps GSM7248v2: 96 Gbps; 71.4 Mpps
- Switch latency: 20 us for 64-byte frames (1 G to 1 G)

ProSafe® 24- and 48-port Gigabit Enterprise Class L2 Managed Switches

GSM7224v2, GSM7248v2

- System memory: 128 MB
- Packet buffer memory: GSM7224v2: max support 0.75 MB buffer memory GSM7248v2: max support 1.5 MB buffer memory
- Code storage (flash): 32 MB
- Address database size: 8 K media access control (MAC) addresses
- Number of VLANs: 1024 (1-4093)
- Number of trunks: 64
- Number of queues: 8
- Number of static route: 32
- Number of routed VLANs: 32
- Number of ARP entries: 480
- Number of ACL rules: 224
- Jumbo frame support: up to 9 K packet size
- Acoustic noise: GSM7224v2: 38.6 dB GSM7248v2: 48.8 dB
- Heat dissipation: GSM7224v2: 131.439 BTU/hr GSM7248v2: 244.101 BTU/hr
- Mean time between failures (MTBF): GSM7224v2: 239,032 hours (~27 years) GSM7248v2: 162,303 hours (~19 years)

User Interfaces

- Command Line Interface (CLI) via console port (5 sessions)
- Web-based management via embedded HTTP server protected with Secure Sockets Layer
- (SSLv3) or Transport Layer Security (TLS v1)
- Telnet remote login (5 sessions) securable with Secure Shell (SSH v1.5, v2)

• LEDs

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

Network Standards Compatibility

- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-TX, 100BASE-FX
- 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 205 x 43 mm (17.3 x 8.1 x 1.6 in)
- Weight: GSM7224v2: 3.65 kg (8.03 lb) GSM7248v2: 4.15 kg (9.13 lb)

Environmental Specifications

- Operating temperature: 0° to 55° C (32° to 131° 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:
 GSM7224v2 38.5W maximum
 GSM7248v2 71.5W maximum
- Redundant power supply input: 12V

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

Warranty

- NETGEAR Lifetime Warranty^{†*}
- Next business day onsite hardware replacement support, 3 years (included)**

Modules

- ProSafe AGM731F 1000BASE-SX SFP GBIC
- ProSafe AGM732F 1000BASE-LX SFP GBIC
- ProSafe AGM733 1000BASE-ZX SFP GBIC
- 100FX SFP LC transceiver

Package Contents

- ProSafe Gigabit L2 Managed Switch (GSM7224v2 or GSM7248v2)
- Null modem cable
- Rubber footpads
- Power cable
- Rack-mount kit
- Installation guide
- Resource CD-ROM
- Warranty/support information card

Ordering Information

North America

- GSM7224-200NAS
- GSM7248-200NAS
- Europe
- GSM7224-200EUS
- GSM7248-200EUS
- Asia
- GSM7224-200AJS
- GSM7248-200AJS

ProSupport Service Packs Available

GSM7224v2

- OnCall 24x7, Category 2 – PMB0332
- XPressHW, Category 2 – PRR0332-100 (Australia only)

GSM7248v2

- OnCall 24x7, Category 3
 PMB0333
- XPressHW, Category 3

 PRR0333-100 (Australia only)

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*Basic technical support provided for 90 days from date of purchase.

**See http://onsite.netgear.com for coverage, availability and terms and conditions.

tLifetime warranty for product purchased after 05/01/2007. For product purchased before 05/01/2007, warranty is 5 years.