

 Help is there when you need it! NETGEAR provides 24x7 technical support* in English, with selected local language support during office hours.

*Free basic installation support for 90 days from date of purchase; optional premium support and switch support packs available.

GSM7328S, GSM7352S ProSafe[™] 24 and 48 Port Gigabit L3 Managed Stackable Switch with 4 10-Gigabit Ethernet Module Bays

Flexible, Stackable, High Speed Switching!

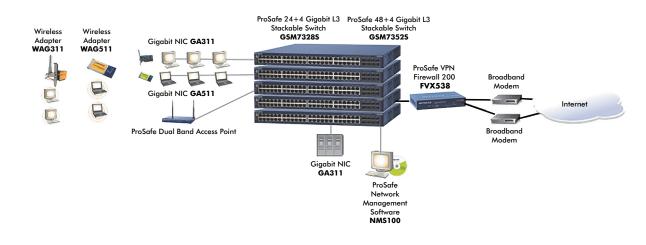
NETGEAR's low-cost, stackable, Gigabit Ethernet switches deliver maximum throughput and flexibility where you need it — to high-speed, high-density workgroups at the edge of the network, in the backbone of growing networks or for bandwidth thirsty file and application servers. The ProSafe GSM7328S and GSM7352S fully managed switches deliver 24 and 48 ports of auto-sensing 10/100/1000 Mbps interfaces for high-density copper connectivity. Four (GSM7328S) or eight (GSM7352S) hot-swappable Small Form-factor Pluggable (SFP) gigabit interfaces provide optional fiber connectivity for longer reach Gigabit Ethernet requirements. Additionally, four high-speed module bays offer modular expansion for 10 Gigabit Ethernet or 24 Gigabit Stacking connectivity. The non-blocking design of the switches delivers simultaneous, full wire-speed, low-latency throughput to all ports.

A full suite of Layer 3 switching functionality ensures reliable routing between VLANs and network segmentation where and when you need it, at no additional cost. By configuring the switches into a stack of up to 8 units across a 48 Gbps bi-directional ring, a high-density, single IP-addressable switch can be built.

Robust security features include IEEE 802.1x port-based authentication and access control lists, ensuring that only authorized users can access your network. Secure management of the switches is available through Secure Sockets Layer (SSLv3) for the Web GUI and Secured Shell (SSH) for command-line sessions. Additionally, multiple switches can be securely managed via SNMPv3 with NETGEAR's ProSafe Network Management Software NMS100. For workgroup deployments in cost-sensitive organizations that require Layer 3 switching, additional Gigabit capacity, high-value price point, flexibility of stacking, and reduced maintenance requirements, NETGEAR's ProSafe 10/100 Layer 3 Stackable switches deliver the ideal access-edge solution.

With their high-value price point, flexible design, and reduced maintenance requirements, NETGEAR's ProSafe 10/100/1000 Layer 3 Stackable switch solutions yield a high return on investment, and are ideal for delivering highly reliable, converged voice, video, and data services over a single network infrastructure.

- **Powerful** In desktop switching environments, wire-speed performance with full QoS control for all 10/100/1000 interfaces is critical. The 4 high-speed 10G/24G module bays provide unprecedented flexibility, whether you are stacking between switches, attaching bandwidth-thirsty file servers, or aggregating critical data to the core of your network.
- **Easy to Use** Simplify and reduce IT staff workload and mean time-to-repair with intuitive, GUI-based device configuration, and an industry-standard command-line interface (CLI). Stacking capabilities allow you to build a single-IP manageable device with up to eight switches utilizing ultra-high-speed 24 Gigabit stacking cables to deliver 48Gbps across an intelligence bi-directional redundant interconnect.





ProSafe[™] 24 and 48 Port Gigabit L3

Managed Stackable Switch

Related Products

Accessories

- NMS100 ProSafe Network Management Software

Access Points

- WAG302 ProSafe Dual Band Wireless Access Point
- WG302 ProSafe 802.11g Wireless Access Point

VPN Firewalls

- FVX538 ProSafe VPN Firewall 200
- FVL328 ProSafe VPN Firewall 100
- FVS338 ProSafe VPN Firewall 50 w/Dial Backup

• Switches

- FSM7352S ProSafe 48+4 10/100 L3 Stackable Switch
- FSM7352PS ProSafe 48+4 10/100 L3 Stackable Switch w/48 PoE
- FSM7328S ProSafe 24+4 10/100 L3 Stackable Switch

Package Contents

- ProSafe Gigabit L3 Managed Switch
- Null modem cable
- Rubber footpads
- Power cable
- Rack-mount kit
- Installation Guide
- Resource CD-ROM with 30 day trial of NMS100
- Warranty/Support information card



4500 Great America Parkway Santa Clara, CA 95054 USA Phone: 1-888-NETGEAR E-mail: info@NETGEAR.com www.NETGEAR.com

©2005 NETGEAR, Inc. NETGEAR®, Everybody's connecting®, the Netgean logo, Auto Uplink, ProSafe, Smart Wizard and RanaeMax are trademarks or reaistered trademarks of NETGEAR, Inc. in the United States and/or other countries. Microsoft, Windows, and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Other brand and product names are trademarks or registered trademarks of their respective holders. Information is subject to change without notice. All rights reserved.

* 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

D-GSM7328S/GSM7352S-01

Physical Interfaces

- RJ-45 Connectors for 10BASE-T, 100BASE-TX, and
- 1000BASE-T (Auto Uplink[™] on all ports):
- GSM7328S 24 ports
- GSM7352S 48 ports
- Small form-factor pluggable (SFP) modules for
- fiber Gigabit Ethernet interfaces:
- GSM7328S 4 slots - GSM7352S 8 slots
- (4) 10 Gigabit Ethernet/24G Stacking Module Bays
- RS-232 Console Port

• Layer 2 Services:

- IEEE 802.1Q Static VLAN (Up to 4k)
- IEEE 802.1p Class of Service (CoS)
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1v Protocol VLAN & Port VLAN
- 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
- Broadcast Storm Protection

Layer 3 Services:

- VLAN routing
- Port routing
- RIP v1/v2 (RFC 1057, 2453)
- OSPF v2 (RFC 1583, 2328)
- VRRP (RFC 2338, 2787)
- ACLs 1,024 Global
- DiffServ QOS (RFC 2998)
- DHCP/Bootp Relay (RFC3046)

Switch Management Specifications:

- SNMP v1, v2c, v3
- RFC 1157, 1901-1910, 2574, 2575
- RFC 768 UDP 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 RFC 2866 RADIUS Accounting
- Private Enterprise MIB
- Port Mirroring Support
- RFC 2236 IGMP v2
- RFC 2030 Simple Network Time Protocol (SNTP)
- SYSLOG

• Performance Specifications:

- Forwarding modes: Store-and-forward
- Bandwidth: GSM7328S 144 Gbps (non-blocking) GSM7352S 196 Gbps (non-blocking)
- Switch latency: < 80 µ for 64-byte frames
- System memory: 256 MB
- Packet buffer memory: 334 KB embedded memory per port
- Code Storage (Flash): 32 MB
- Address database size: 16K media access control (MAC) addresses
- Number of VLANs: 512 (1-4096)
- Number of trunks: 6
- Number of Queues: 8
- Number of routes: 512
- Jumbo frame support: up to 9K packet size
- Acoustic noise: (ANSI-S10.12) 56.07 dB
- Heat Dissipation: 18.99 BTU/hr - Mean Time Between Failure (MTBF): 117,747 hours
- (~ 13.4 years)

• User Interfaces:

- Command Line Interface (CLI) via console port - Web-based management via embedded HTTP server
- protected with Secured Sockets Layer - (SSLv3) or Transport Layer Security (TLS v1)

Network Standards Compatibility:

- IEEE 802.3 10BASE-T

- IEEE 802.3u 100BASE-TX

- IEEE 802.3ab 1000BASE-T

- IEEE 802.3z 1000BASE-X

- IEEE 802.3x Flow Control

Physical Specifications:

(17.32 x 15.16 x 1.7 in)

- Weight: GSM7328S 4.5kg (10lbs)

Environmental Specifications:

humidity, noncondensing

• Electrical Specifications

• Electromagnetic Emissions:

- EN 55022 (CISPR 22), Class A

- CSA certified (CSA 22.2 #950)

ProSafe AXM751 10GBASE-SR

- ProSafe AXM752 10GBASE-LR

- UL listed (UL 1950)/CUL IEC950/EN60950

- ProSafe AGM731F 1000BASE-SX SFP GBIC

- ProSafe AGM732F 1000BASE-LX SFP GBIC

- ProSafe AGM733 1000BASE-ZX SFP GBIC

- ProSafe AX742 24 Gigabit Stackable Modul

- ProSafe AX741 10 Gigabit Ethernet XFP Adapter

GSM7328S

PMP1133

PMP3333

PMB0333

GSM7352S

PMP1134

PMP3334

PMB0334

Electromagnetic Immunity:

- CE mark, commercial

- CE mark, commercial

- FCC Part 15 Class A

- VCCI Class A

- EN 50082-1 - EN 55024

- C-Tick

• Safety:

Modules:

• Warranty:

- Limited Lifetime

ProSupport Packs

- OnSite 24x7

- OnCall 24x7

- OnSite 9x5

noncondensing

- IEEE 802.3ae 10000BASE-X

- Telnet remote login (5 sessions) securable with Secured Shell (SSH v1.5, v2)

- Per device: Power, Fan Status, Stack ID, RPS, Master

- Dimensions (w x d x h): 440 x 385 x 43 mm

GSM7352S 5.4 kg (12lbs)

- Operating humidity: 90% maximum relative

- Operating temperature: 0 to 40° C (32 to 104° F)

- Storage humidity: 95% maximum relative humidity,

- Operating altitude: 3,000 m (10,000 ft) maximum

- Storage altitude: 3,000 m (10,000 ft) maximum

- Power Consumption: 80 W maximum

100-240VAC/50-60 Hz universal input

- Storage temperature: -20 to 70° C (-4 to 158° F)

• LEDs: - Per port: Speed, Link, Activity