FSM7328S, FSM7352S
ProSafe 24 and 48 Port 10/100
L3 Managed Stackable Switch
with 4 Gigabit Ports

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

Flexible, Stackable, Fast Ethernet Switching!

NETGEAR's low-cost, stackable, Fast Ethernet switches deliver maximum throughput and flexibility where you need it — to high-density workgroups at the edge of the network, or in the backbone of small networks. The ProSafe FSM7328S and FSM7352S are managed 24-port and 48-port switches with auto-sensing 10/100 ports and four 10/100/1000 ports. This enables fiber connectivity through four hot-swappable Small Form-factor Pluggable (SFP) gigabit interfaces. The non-blocking design of the switches delivers simultaneous, full wire-speed, low-latency throughput to all ports. In addition, their 1U rack-mount form factor uses less rack space and provides a lower per-port cost than comparable Fast Ethernet switches.
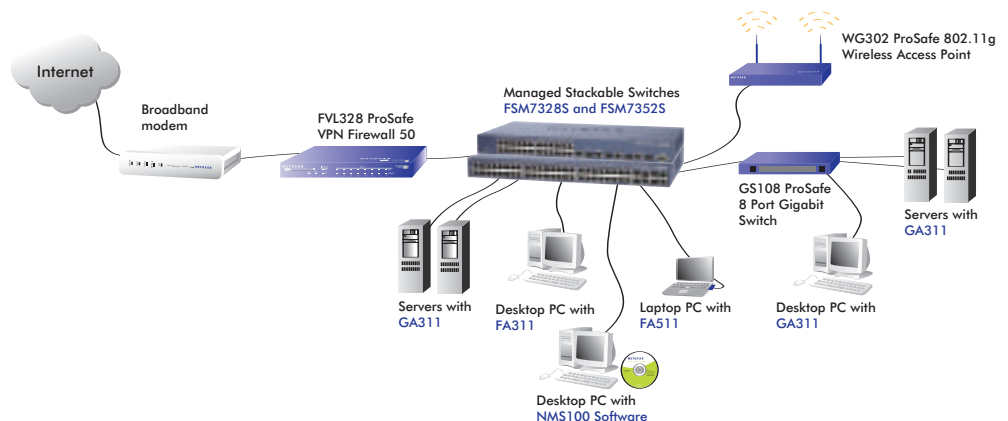
Dynamic Layer 3 switching ensures reliable routing between VLANs and network segmentation where and when you need it, at no additional cost. Plus, convenient front-panel stacking via standard Gigabit Ethernet interfaces provides expandability to meet your growing network's needs.

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, the flexibility of stacking and additional Gigabit capability, NETGEAR's ProSafe 10/100 Layer 3 Stackable switches deliver the ideal access-edge solution.

Powerful In desktop switching environments, wire-speed performance with full QoS control for all 10/100 interfaces is critical. The 4 Gigabit Ethernet combo interfaces 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). New front-panel stacking capabilities allow you to build a single-IP manageable device with up to eight switches utilizing standard copper or fiber Gigabit Ethernet interfaces and cables. Dynamic RIPv1/v2 standards-based routing protocols ensure ease of setup, and eliminate the need to maintain static routing tables, reducing ongoing maintenance costs.

Outstanding Value With their high-value price point, flexible design, and reduced maintenance requirements, NETGEAR's ProSafe 10/100 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.

Internet

Broadband modem

FVL328 ProSafe VPN Firewall 50

Managed Stackable Switches
FSM7328S and FSM7352S

WG302 ProSafe 802.11g Wireless Access Point

GS108 ProSafe 8 Port Gigabit Switch

Servers with GA311

Servers with GA311

Desktop PC with FA311

Laptop PC with FA511

Desktop PC with GA311

Desktop PC with NMS100 Software

NETGEAR®
Everybody's connecting.®

Package Contents

- FSM7328S or FSM7352S
  Managed Switch
- Power cable
- Null modem cable
- Rubber footpads for tabletop installation
- Rack-mount kit
- Installation guide
- Resource CD-ROM with User Manual
- ProSafe NMS100 30-Day
  Trial CD-ROM
- Warranty/Support Information card

NETGEAR Related Products

- AGM731F 1000BASE-SX SFP GBIC
- AGM732F 1000BASE-LX SPF GBIC
- FSM7326P 24+2 Layer 3 Managed
  Switch with Power over Ethernet
- GSM7312 12-port Layer 3 Managed
  Gigabit Switch
- GSM7324 24-port Layer 3 Managed
  Gigabit Switch
- FSM726S 26+2 Layer 2
  Managed Switch
- FSM750S 48+2 Layer 2
  Managed Switch
- GSM7224 24-port Layer 2
  Managed Gigabit Switch
- NMS100 Network
  Management Software
- P3L31 Premium Support Pack - 1 year
- P3L33 Premium Support Pack - 3 year

Safety

CE mark, commercial CSA
certified (CSA 22.2 #950) UL listed
(UL 1950)/CUL IEC950/EN60950

Warranty

NETGEAR Limited lifetime warranty
with free basic installation support for
90 days from date of purchase; optional
premium support packages available.

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PROSAFE ™

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Technical Specifications

- Network Protocol and Standards Compatibility
  IEEE 802.3 10BASE-T
  IEEE 802.3u 100BASE-TX
  IEEE 802.3z 1000BASE-SX
  IEEE 802.3ab 1000BASE-T
  IEEE 802.3x flow control

- 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 802.1w 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-based routing
  RFC 1057, 2453 RIP v1, v2
  RFC 2998 DiffServ
  RFC 3046 DHCP Relay

- Switch Management
  RFC 854-859 Telnet
  SNMP v1, v2c, v3
  RFC 1213 MIB II
  RFC 1757 RMON groups 1,2,3, and 9
  Port Mirroring Support
  RFC 951 BootP
  RFC 1157, 1902, 1903, 1904, 1905, 1906, 1907
  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
  Private Enterprise MIB
  RFC 2030 Simple Network Time Protocol (SNTP)
  SYSLOG

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

- Physical Interfaces
  - 24 or 48 RJ-45 connectors for 10BASE-T,
    100BASE-TX (Auto Uplink and auto-negotiate
    on all ports)
  - 4 1000Base-T with optional SFP connectors for
    fiber connection
  - RS-232 Console Port

- Preformance Specifications
  - **Forwarding modes:** Store-and-forward
  - **Bandwidth:** FSM7328S: 12.8 Gbps (non-blocking)
                     FSM7352S: 17.6 Gbps (non-blocking)
  - **Switch latency:** Less than 80 microseconds for
    64-byte frames
  - **System memory:** 128 MB
  - **Packet buffer memory:** 32 MB
  - **Code Storage (Flash):** 16 MB
  - **Address database size:** 16,384 media access control
    (MAC) addresses
  - **Number of VLANs:** 512 (1-4096)
  - **Number of trunks:** 6
  - **Number of Queues:** 8
  - **Number of routes:** 128
  - **Jumbo frame support:** up to 9K packet size

- Electrical Specifications
  - **Power Consumption:** 80 W maximum
    100-240VAC/50-60 Hz universal input

- Physical Specifications
  FSM7328S
  - **Dimensions (W x D x H):** 440 x 205 x 43 mm
    (17.32 x 8.1 x 1.7 in)
  - **Weight:** 3.2 kg (7.0 lbs)
  - **Acoustic noise:** (ANSI-S10.12) 0 dB (fanless)
  - **Heat Dissipation:** 28.24 Btu/hr
  - **Mean Time Between Failure (MTBF):** 125,500 hours
    (~14.3 years)

  FSM7352S
  - **Dimensions (W x D x H):** 440 x 257 x 43 mm
    (17.32 x 10.1 x 1.7 in)
  - **Weight:** 3.2 kg (7.0 lbs)
  - **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)

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

- Electromagnetic Emissions
  - CE mark, commercial
  - FCC Part 15 Class A
  - VCCI Class A
  - EN 55022 (CISPR 22), Class A
  - C-Tick

- Electromagnetic Immunity
  - EN 50082-1, EN 55024