



# FSM7352PS

## ProSafe™ 48 Port 10/100 L3 Managed Stackable Switch with 4 Gigabit Ports and 48 Port PoE

- *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.*

### Flexible, Stackable Fast Ethernet Power over Ethernet Switching

NETGEAR's high-performance, stackable, Layer 3 Fast Ethernet switch with Power over Ethernet (PoE), delivers maximum throughput and flexible deployment where you need it — to high-density user communities with VoIP, access points or IP-based surveillance camera requirements. With IEEE 802.3af PoE on all 48 ports, the ProSafe FSM7352PS features 48 10/100 Mbps ports and four 10/100/1000 ports which enable fiber connectivity through four hot-swappable Small Form-factor Pluggable (SFP)\* gigabit interfaces. The non-blocking design of the switch delivers simultaneous, full wire-speed, low-latency throughput to all ports. In addition, its 1U rack-mount form factor uses less rack space and provides lower per-port cost than comparable PoE 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.

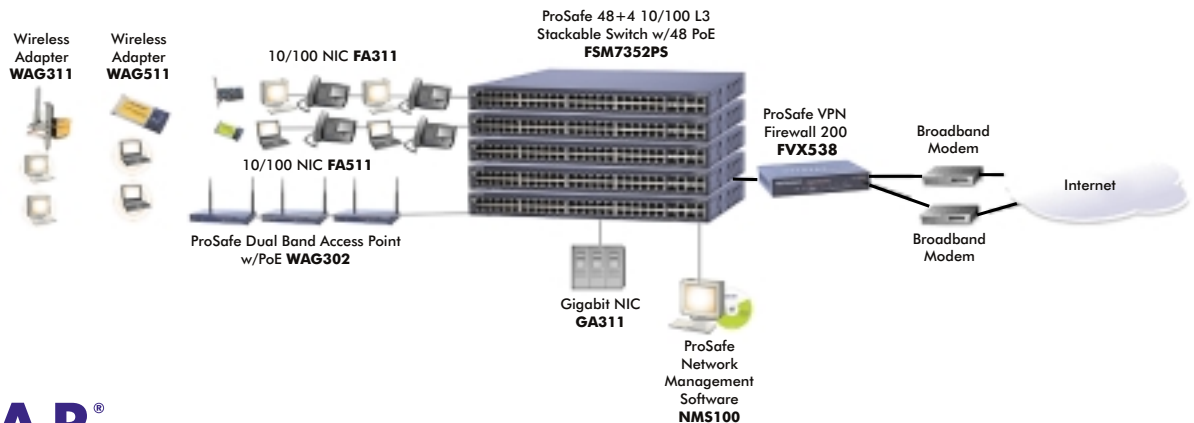
Robust security features include IEEE 802.1x port-based authentication and access control lists, ensuring that only authorized users can access your network. Secure management of the switches is available through Secure Sockets Layer (SSLv3) for the Web GUI and Secured Shell (SSH) for command-line sessions. Additionally, multiple switches can be securely managed via SNMPv3 with NETGEAR's ProSafe Network Management Software NMS100. With the high-value price point, flexible design, and reduced maintenance requirements, NETGEAR's ProSafe FSM7352PS solution yields a high return on investment, and is 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 interfaces is critical for emerging technologies such as Voice over IP (VoIP). 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.

**Flexible** ● PoE optimizes the installation and power management of IEEE 802.3af standard based network devices such as access points, VoIP phones, and IP-based surveillance cameras. PoE reduces installation costs and frees your wireless deployment from restrictions due to power outlet locations.

**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. Comprehensive Layer 2 and Layer 3 protocol support ensures compatibility and interoperability.

\*Use with NETGEAR ProSafe AGM731F 1000BASE-SX SFP GBIC module, ProSafeAGM732F 1000BASE-LX SFP GBIC module or ProSafe AGM733 1000BASE-ZX SFP GBIC.



## Physical Interfaces

- 48 RJ-45 connectors for 10BASE-T and 100BASE-TX (Auto Uplink™ and PoE on all ports)
- 4 1000Base-T with optional SFP connectors for fiber connection
- 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 802.1w 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
- VRRP
- ACLs
- 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:** 17.6 Gbps (non-blocking)
- **Switch latency:** < 80 μs for 64-byte frames
- **System memory:** 256 MB
- **Packet buffer memory:** 122 KB embedded memory per port
- **Code Storage (Flash):** 16 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:** 128
- **Jumbo frame support:** up to 9K packet size
- **Acoustic noise:** (ANSI-S10.12) 60 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)
- Telnet remote login (5 sessions) securable with Secured Shell (SSH v1.5, v2)

## LEDs:

- **Per port:** Speed, Link, Activity, PoE
- **Per device:** Power, Fan Status, Stack ID, RPS, Master

## 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
- IEEE 802.3af Power over Ethernet

## Physical Specifications:

- **Dimensions (w x d x h):** 440 x 385 x 43 mm (17.32 x 15.16 x 1.7 in)
- **Weight:** 5.7 kg (12.5 lbs.)

## 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, noncondensing
- **Storage humidity:** 95% maximum relative humidity, noncondensing
- **Operating altitude:** 3,000 m (10,000 ft) maximum
- **Storage altitude:** 3,000 m (10,000 ft) maximum

## Electrical Specifications

- **Power Consumption:** 440 W maximum
- 100-240VAC/50-60 Hz universal input

## 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

## Safety:

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

## Modules:

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

## Warranty:

- Limited Lifetime
- ProSupport Packs
- OnSite 24x7 – PMP1133
- OnSite 9x5 – PMP3333
- OnCall 24x7 – PMB0333

## Related Products

### Accessories:

- NMS100 ProSafe Network Management Software
- FA311 10/100 PCI Adapter
- FA511 10/100 PC Card

### 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
- FSM7328S ProSafe 24+4 10/100 L3 Stackable Switch
- GSM7352S ProSafe 48+4 Gigabit L3 Stackable Switch
- GSM7328S ProSafe 24+4 Gigabit L3 Stackable Switch

## Package Contents

- ProSafe Gigabit L3 Managed Switch FSM7352PS
- 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

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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.