

### Stackable Switches Designed for Small, Growing Businesses



Small and growing companies “bet the business” on their network, depending on it as the essential nerve center for applications, VoIP phones, videoconferencing, and much more. Businesses with 40-200 users want full-featured network switches that can support the full range of network applications, but without enterprise-class pricing, training, and support requirements. The ProSafe® Stackable Smart Switch family delivers the flexibility, reliability, and performance growing businesses need at very affordable prices – in an easy-to-use package. Each ProSafe Stackable Smart Switch comes with 24 or 48 10/100 ports and four Gigabit ports. Up to 24 ports of Power over Ethernet (PoE) are also available, making these switches ideal for deploying wireless access points, VoIP phones, and surveillance cameras. Two of the Gigabit Ethernet ports offer the option of fiber connectivity via small form-factor pluggable (SFP) GBIC\*\* slots for long distance links. A 4 Gbps, dual-ring, resilient stacking architecture provides the highest reliability, while allowing you to mix and match to stack up to six units or 192 10/100 ports - and easily manage them all at a single IP address!

The popular intuitive, Web-browser interface offers the Smart Switch management, making it a snap to monitor stack performance, configure ports, even set up port trunks, VLANs, and traffic prioritization. In addition, the ProSafe Stackable Smart Switches expand on the current ProSafe Smart Switch feature set by adding 802.1x security, SNMP v2c and v3 support, logging, rate-limiting and Layer 3 prioritization. Why buy stackable network switches designed and priced for the enterprise? NETGEAR® ProSafe Stackable Smart Switches are designed for small and growing businesses – they are easy to buy and use, with all of the features you need!

#### Versatile

Expand your network as you grow your business, adding switches to the stack as you need them. Use PoE ports to simplify the installation and management of wireless access points, VoIP phones, and security cameras.

#### Powerful

Gigabit ports provide high-speed connectivity when you add more servers, or link in power users. Use copper connections, or two SFP GBIC fiber slots provide optional fiber connectivity for greater distance. The non-blocking design of the switches deliver simultaneous, full wire-speed, low-latency throughput to all ports. Advanced feature set delivers the security, reliability, prioritization, and monitoring capabilities small businesses need.

#### Reliable

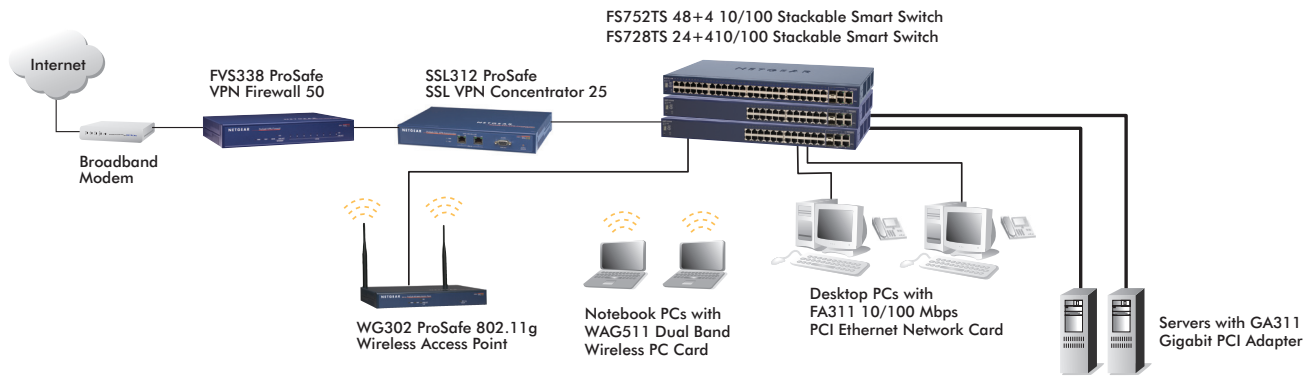
Redundant stacking features deliver maximum availability. All ProSafe Stackable Smart Switches are made to last. Like all NETGEAR ProSafe Smart Switches, the FS728TS, FS752TS and FS752TPS are backed by the NETGEAR ProSafe Lifetime Warranty†, and 1-Year ProSupport 24x7 Advanced Technical Support\*.

#### Easy

Manage all ProSafe Stackable Smart Switches as though they are one unit from an easy-to-use Web console. Optimized for ProSafe Network Management Software (NMS100) and works with other SNMP-based management software. Shipped ready to go straight out of the box, NETGEAR delivers switching that is easy to set up, stack-up, and use.

\*\*Use with AGM731F ProSafe 1000BASE-SX SFP GBIC, AGM732F ProSafe 1000BASE-LX SFP GBIC, or AGM733 ProSafe 1000BASE-ZX SFP GBIC module





## Technical Specifications

### • Network Protocol and 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 full-duplex flow control
- IEEE 802.3af power over Ethernet (FS752 TPS)

### • Interfaces

- FS728TS: 24 10/100 Mbps auto sensing switching ports
- FS752TS/FS752TPS: 48 10/100 Mbps auto sensing switching ports
- FS752TPS: 48 10/100 Mbps Ports of which 24 support PoE
- 4 Built-in RJ-45 Gigabit Ethernet ports for 10/100/1000 Mbps connectivity
- 2 SFP slots for fiber Gigabit Ethernet modules
- Auto-sensing and auto-negotiating capabilities for all ports
- Auto Uplink™ on all ports to make the right connection

### • Administrative Switch Management

- IEEE 8021.Q VLAN (128 groups, static)
- IEEE 802.1p Class of Service (CoS)
- Port-based QoS
- IEEE 802.3ad link aggregation (LACP)
- IEEE 802.1D Spanning Tree Protocol
- SNMP v1, v2c, v3
- DSCP Layer 3 QoS
- Guest VLAN
- ACL – MAC address
- RFC 1213 MIB II
- RFC 1643 Ethernet interface MIB
- RFC 1493 bridge MIB

- RFC 2131 DHCP client
- IEEE 802.1x
- Port-based security by locked MAC addresses
- Storm control for broadcast, multicast and unknown unicast packets
- Port-based ingress/egress rate limiting
- STNP
- RMON group 1, 2, 3, 9
- Private enterprise MIB
- Port mirroring support
- Web-based configuration
- Configuration backup/restore
- Password access control
- Firmware upgradeable

### • Performance Specifications

- Forwarding modes: Store-and-forward
- Bandwidth: 12.8 Gbps for FS728TS, 17.6 Gbps for FS752TS/FS752TPS
- Network latency: Less than 20 microseconds for 64-byte frames in store-and-forward mode for 100 Mbps to 100 Mbps transmission
- Buffer memory: 128 KB
- Address database size: 8,000 media access control (MAC) addresses per system
- Addressing: 48-bit MAC address
- Mean time between failure (MTBF): 100,000 hours (~11 years) for FS728TS; 83,000 hours (~9 years) for FS752TS; 114,700 (~13 years) for FS752TPS

### • LEDs

- Unit: Power, master, stack ID
- Per port: Link, speed, activity
- Per Gigabit port: Link, speed, Activity, Stack
- FS752TPS: PoE Max, PoE active, PoE fault

### • Power Supply

- Power Consumption:
  - FS728TS: 17.37 Watts
  - FS752TS: 22.3 Watts
  - FS752TPS: 249 Watts
- 100-240VAC/50-60Hz universal input
- FS752TPS PoE power budget: 180W

### • Physical Specifications

- Dimensions (h x w x d):
  - 43.2 x 440 x 257 mm
  - (1.70 x 17.32 x 10.12 in)
- Weight: FS728TS: 2.6 kg (5.73 lb)
- FS752TS: 2.98 kg (6.57 lb)
- FS752TPS: 4.05 kg (8.91 lb)

### • Environmental Specifications

- Operating temperature: 32° to 104° F (0° to 40° C)
- Storage temperature: -4° to 158° F (-20° to 70° C)
- 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 Compliance

- CE mark, commercial
- FCC Part 15 Class A
- VCCI Class A
- EN 55022 (CISPR 22)
- EN 55024 (CISPR 24)
- C-Tick

### • Safety

- CE mark, commercial
- CUL 60950 (Listed)/ EN60950 (Low Voltage Directive)

**System Requirements**

- Category 5 UTP Cables or better
- Network card for each PC
- Network software (e.g., Windows®)

**Warranty and Support**

- ProSafe Lifetime Warranty†
- ProSupport 24x7 Advanced Technical Support, 1 year (included)\*

**ProSupport™ Service Packs Available**

- XPressHW, Category 2: PRR0331 (3-year next-business day hardware replacement contract)
- OnCall 24x7, Category 2: PMB0331 (3-year Advanced Technical Support contract, including Remote Diagnostics performed by our technical experts for prompt resolution of technical issues, and next-business day hardware replacement)

**Modules**

- AGM731F ProSafe 1000BASE-SX SFP GBIC: Module with LC connectors for 50um or 62.5um multi-mode fiber cable
- AGM732F ProSafe 1000BASE-LX SFP GBIC: Module with LC connectors for 9um single-mode fiber cable
- AGM733 ProSafe 1000BASE-ZX SFP GBIC: Module with LC connectors for 9um single-mode fiber cable

**Package Contents**

- Prosafe 24/48 Stackable Smart Switch with 4 Gigabit Ports (FS728TS, FS752TS or FS752TPS)
- Rubber footpads
- Power cord
- Rack-mount kit
- Resource CD-installation guide
- Warranty/support information card

**Ordering Information****• FS728TS**

- North America: FS728TSNA
- Europe: FS728TSEU
- Asia: FS728TSAU
- Japan: FS728TSJP

**• FS752TS**

- North America: FS752TSNA
- Europe: FS752TSEU
- Asia: FS752TSAU
- Japan: FS752TSJP

**• FS752TPS**

- North America: FS752TPSNA
- Europe: FS752TPSEU
- Asia: FS752TPSAU
- Japan: FS752TPSJP

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\* 1-year 24x7 Advanced Technical Support includes Remote Diagnostics performed by our technical experts for prompt resolution of technical issues.

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

D-FS728TS/FS752TS/FS752TPS-3