



Full 24-port PoE Solution Plus Easy Browser-based Management

NETGEAR ProSafe Smart Switches fill the gap between unmanaged and fully managed switches. The family of ProSafe Smart Switches is designed for growing businesses that want control over their network without the cost and complexity of a full Layer 2/Layer 3 management implementation. This PoE-capable Smart Switch, the FS728TP, provides power and data using built-in IEEE 802.3af PoE on all 24 ports. In addition, the FS728TP offers an intuitive Web-based management tool for quick and easy deployment and configuration making it ideal for deploying access points, VoIP phones and IP-based surveillance cameras. This switch is equipped with highly advanced features such as access control lists (ACL), 802.1x port authentication, enhanced QoS, rate limiting and IGMP snooping among others to provide a small and medium-sized business with a network that is geared for growth while providing scalability and reliability. With the utility of 24 10/100 Mbps ports, two copper 10/100/1000 ports and two combination (copper/hot-swappable small form-factor pluggable (SFP)*) Gigabit ports for optional fiber connectivity, growing business networks, classrooms and workgroups can benefit from superior performance and keep up with expanding network needs. This high-performing switch features a non-blocking wire-speed architecture with an 12.8 Gbps switching capacity for maximum data throughput. All 28 RJ-45 ports automatically negotiate to the highest speed and support Auto Uplink™ technology to make the right link.

Full-featured, Flexible Power over Ethernet (PoE)

With a total power budget of 195 Watts, customers can choose to plug in up to 24 Ethernet or Fast Ethernet devices and mix in up to 24 802.3af IP-based devices. Power-over-Ethernet (PoE), optimizes the installation and power management of network devices such as wireless access points (AP), Voice over IP (VoIP) phones, and IP-based surveillance cameras. Power-over-Ethernet (IEEE 802.3af) capabilities reduce installation time and costs for many new network productivity devices. Free your wireless AP deployments and IP cameras from the restrictions of power outlet proximity using a standard Cat 5 cable. Enable uninterruptible power supply for all your PoE devices by powering your switch from a UPS device.

Advanced Security

These switches also provide advanced features that provide more robust security to the SMBs. These include:

- 802.1x for authentication
- ACL filtering to permit or deny traffic based on MAC and IP addresses.

Advanced Quality of Service

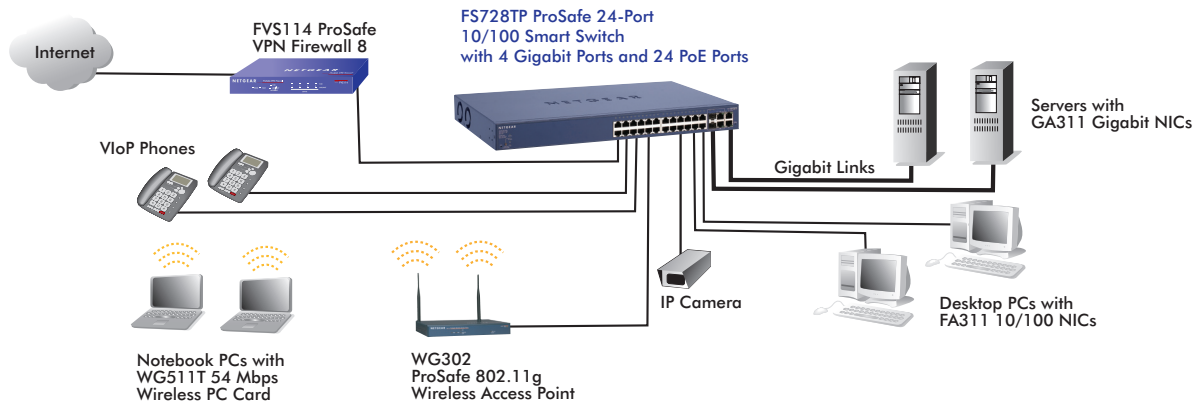
Priority queuing ensures high-priority traffic gets delivered efficiently, even during congestion from high traffic bursts. Companies implementing network telephony or video conferencing, for example, need to be able to prioritize such voice and video traffic and other real-time applications over less latency-sensitive traffic to ensure reliability and quality. The ability to prioritize traffic ensures quality of latency-sensitive services and applications despite increasing traffic loads. The ProSafe FS728TP provides several advanced QoS features:

- 802.1p based prioritization
- Layer 3-based (DSCP) prioritization
- Rate limiting



“Smart” Management Features Manage all ProSafe Smart Switches as from an easy-to-use Web console that can be used to configure all features, as well as monitor and trouble-shoot. These switches also have SNMP (v1, 2 and 3) to collect and track data to monitor the network health, as well as manage devices, and more easily enforce critical IT controls and policies. SNMP v2c is most commonly deployed, as it provides better reporting capabilities than SNMP v1. Companies interested in more robust security may opt for SNMP v3, which provides data encryption.

All ProSafe Smart Switches provide world-class reliability with a Lifetime Warranty and optional ProSupport Maintenance Packages. These switches are optimized for ProSafe Network Management Software (NMS100) and works with other SNMP-based management software.



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)

• Power Supply

- Power consumption: 225W maximum
- 100-240VAC/50-60-Hz universal input
- PoE budget: 195W

• Network Ports

- 24 10/100 Mbps auto sensing Fast Ethernet
- 2 10/100/1000 Mbps auto-sensing Gigabit Ethernet switching ports (RJ-45)
- 2 ccombo Gigabit copper/SFP slots

• Physical Specifications

- Dimensions: (w x d x h):
440 x 205 x 43 mm
(17.3 x 8.1 x 1.6 in)
- Weight: 4.0 kg (8.8 lb)

• Electromagnetic Emissions

- CE mark, commercial
- FCC Part 15 Class A
- VCCI Class A
- C-Tick

• Environmental Specifications

- Operating temperature: 32° to 104° F (0° to 50° 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

• LEDs

- Per port (10/100 and Gigabit): Link/activity, speed
- Per device: Power
- Per PoE port: PoE Power, PoE fault

• Electromagnetic Immunity

- EN 55024

• Safety

- CE mark, commercial
- cUL IEC950/EN60950

System Requirements

- Category 5 network cables
- Network card for each PC
- Network software (e.g., Windows®)
- Web browser (e.g., Internet Explorer 5.0 or higher, Netscape 6.0 or higher)

Administrative Switch Management

- IEEE 802.1Q static VLAN (128 groups, static)
- IEEE 802.1p Class of Service (CoS)
- Port-based QoS
- DSCP-based QoS
- IEEE802.3ad link aggregation (manual or LACP)
- IEEE 802.1D Spanning Tree Protocol
- SNMP v1, v2c, v3
- RFC 1213 MIB II
- RFC 1643 Ethernet interface MIB
- RFC 1493 bridge MIB
- RMON group 1, 2, 3, 9
- RFC 2131 DHCP client
- IEEE 802.1x
- Port-based security by locked MAC addresses
- MAC ACL
- Storm control for broadcast, multicast and unknown unicast packets
- IGMP snooping v1/v2

- Port-based ingress rate limiting
- SNMP
- Port mirroring support (many to one)
- Web-based configuration
- Configuration backup/restore
- Password access control
- RADIUS Support
- TACACS+ support
- Syslog
- Firmware upgradeable

Performance Specifications

- Forwarding modes: Store-and-forward
- Bandwidth: 8.8 Gbps
- Network latency: <20µs for 64-byte frames in store-and-forward mode for 100 Mbps to 100 Mbps transmission
- Buffer memory: 3MB per system
- Address database size: 8,000 media access control (MAC) addresses per system
- Addressing: 48-bit MAC address
- Mean time between failures (MTBF): 300,000 hours (~34 years)
- Acoustic noise: 49 dB

Modules

- AGM731F 1000BASE-SX SFP Module
- AGM732F 1000BASE-LX SFP Module
- AGM733 1000BASE-LZ SFP Module

Warranty

- NETGEAR Lifetime Warranty†

ProSupport™ Service Packs Available

- **On Call 24 x 7**
 - PMB0331-100 (US)
 - PMB0331 (non-US)
- **Xpress HW**
 - PRR0331

Package Contents

- 24-port Smart Switch with Gigabit Ports (FS728TP)
- Rubber footpads
- Power cord
- Rack-mount kit
- Resource CD
- Installation guide
- Warranty/support information card
- Category 5 cable

Ordering Information

- North America: FS728TP-100NAS
- Europe: FS728TP-100EUS
- Asia: FS728TP-100AUS
- Japan: FS728TP-100JPS

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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.

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