Power Up Your Small Network to Gigabit Speeds

Joining NETGEAR's family of Gigabit Smart Switches with web-based management, this 8-port Gigabit switch is high on value and capability. With 8 10/100/1000 Mbps ports and support for Jumbo frames, capable of powering 2000 Mbps of data throughput in full-duplex mode, it is ideal for small offices or extensions and connects high speed servers or power users. Ideal for combining 10, 100, and 1000 Mbps devices it delivers automatic speed and full/half-duplex sensing plus Auto Uplink™ on every port. In addition, an intuitive web-browser interface offers the simple Smart Switch management, making it easy to configure ports and set up port trunks, VLANs and traffic prioritization or monitor switch performance. Alternatively, use SNMP-based software to manage your Smart Switch.

The GS108T 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.

Enhanced Security

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

• 802.1x for authentication, with Guest VLAN

• MAC-based port security

Enhanced 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 GS108T provides several advanced QoS features:
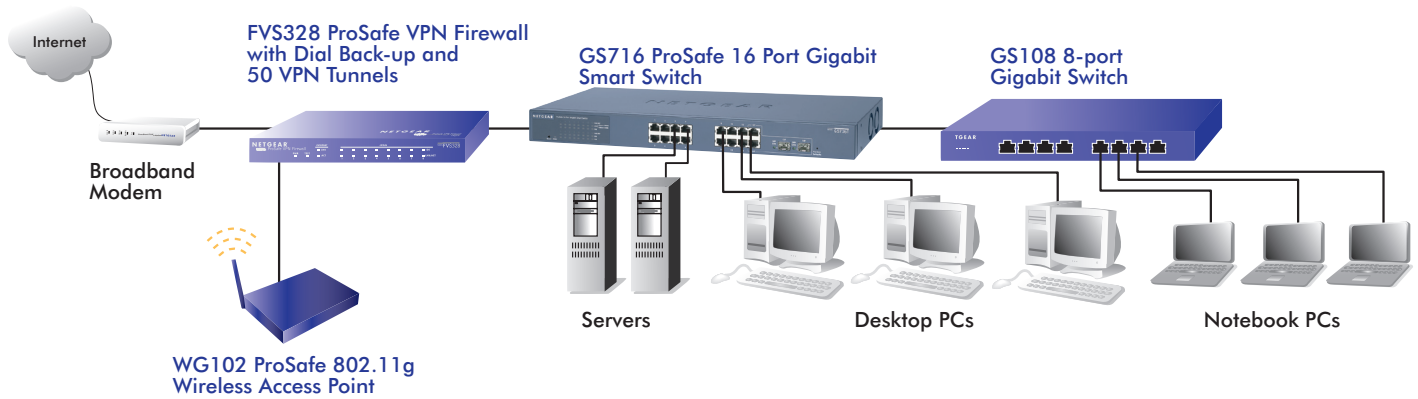
• 802.1p based prioritization

• 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, 2c) 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. In addition, the GS108T also supports standards based 802.1ab: Link Layer Discovery Protocol (LLDP). This feature enables discovery of other devices in the network that support LLDP. The switch also features Link Aggregation Group (LAG) which allows trunk groups to be created. Finally, the GS108T also features 802.1w Rapid Spanning Tree (RSTP) which is backward compatible with 802.1d Spanning Tree Protocol.

These ProSafe Smart Switches provide world-class reliability with a Limited 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.

FVS328 ProSafe VPN Firewall with Dial Back-up and 50 VPN Tunnels

GS716 ProSafe 16 Port Gigabit Smart Switch

GS108 8-port Gigabit Switch

Internet

Broadband Modem

WG102 ProSafe 802.11g Wireless Access Point

Servers

Desktop PCs

Notebook PCs

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

• Electromagnetic Immunity
– EN 55024

• Safety
– CE mark, commercial
– cUL IEC950/EN60950

• Administrative Switch Management
– IEEE 802.1Q Static VLAN (256 groups, Static)
– Port-based VLAN (8 groups)
– IEEE 802.1p Class of Service (CoS)
– Port-based QoS
– DSCP-based QoS
– IEEE802.3ad Link Aggregation (manual or LACP)
– IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
– IEEE 802.1ab Link Layer Discovery Protocol (LLDP)

– SNMP v1, v2c
– 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 with Guest VLAN
– Jumbo frame support
– Port-based security by locked MAC addresses
– Storm control for broadcast, multicast and unknown unicast packets
– IGMP Snooping v1/v2
– Port-based ingress & egress rate limiting
– SNTP
– Port Mirroring Support
– Web-based configuration
– Configuration Backup/Restore
– Password Access Control
– RADIUS Support
– Syslog
– Firmware upgradeable

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)

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

• Power Supply
– Power Consumption: 12W maximum
– 100–240VAC/50–60 Hz universal input

• Network Ports
– G108T: 8 10/100/1000 Mbps auto sensing Gigabit Ethernet

• Physical Specifications
– GS108T Dimensions:(W x D x H): 25.9 mm (1.02") x 235.5 mm (9.27") x 440 x 100.8 mm (3.97")
– GS108T Weight: 0.69 kg (1.52 lbs)

• Performance Specifications
– Forwarding modes: Store-and-forward
– Bandwidth: 16 Gbps full duplex
– 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 embedded memory per unit
– Address database size: 8,000 media access control (MAC) addresses per system
– Addressing: 48-bit MAC address
– Mean Time Between Failure (MTBF): 108,016 hours (~12 years)

• Warranty
– NETGEAR Limited Lifetime warranty

Package Contents
– 8-port Gigabit Smart Switch GS108T
– Rubber footpads
– Power cord
– Wallmount kit
– Resource CD
– Installation guide
– Warranty/Support information card
– Category 5 cable

Related NETGEAR ProSafe Products

– 32-bit Gigabit PCI Adapter (GA311)

– 24-Port Gigabit Stackable Smart Switch (GS724TS)

– 48-Port Gigabit Stackable Smart Switch (GS748TS)

– 24-port Gigabit Smart Switch (GS724T)

– 16 Port Gigabit Smart Switch (GS716T)

– 48-port Gigabit Smart Switch (GS748T)

– 24-port 10/100 Smart Switch with 2 Gigabit Ports (FS726T)

– 48-port 10/100 Smart Switch with 2 Gigabit Ports (FS750T2)

– 24+4 10/100 Smart Switch with Full POE (FS728TP)

– 24-port 101/00 Smart Switch with 2 Gigabit Ports and 12 Port PoE (FS726TP)

– 24 Port 10/100 Stackable Smart Switch + 4 Gigabit Ports (FS728TS)

– 48 Port 10/100 Stackable Smart Switch + 4 Gigabit Ports (FS752TS)

– 48 Port 10/100 Stackable Smart Switch with 4 Gigabit Ports and 24 Port PoE (FS752TPS)

– 5-port Gigabit Switch (GS105)

– 8-port Gigabit Switch (GS108)

– 16-port Gigabit Switch (GS116)

– 16-port Gigabit Switch (JGS516)

– 24-port Gigabit Switch (JGS524)

• ProSupport Service Packs Available

– PMB0331 – OnCall 24x7, Advanced Tech Support with Next Business Day HW Replacement (3 Years)

– PRR0331 – XPressHW, Next Business Day HW Replacement (3 Years)

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