

**Power up Your Small Network with Gigabit Speeds**

NETGEAR's family of Prosafe® Gigabit Smart Switches is purposely designed for SMB customers with high performance, SMB-oriented features and easy management. With 8 10/100/1000 Mbps ports, each capable of powering 2000 Mbps of data throughput in full-duplex mode per port, the GS108T is an ideal solution for extending network connections into conference room, labs, lobbies and department workgroups. It enables SMB networks to support Voice over IP (VoIP), streaming media, multicasting, security, and many other bandwidth-intensive applications like ERP and large file transfers. The GS108T comes with a comprehensive set of features, such as access control lists (ACL), 802.1x port authentication, enhanced QoS, rate limiting and IGMP snooping among others to provide a small or medium-sized business with a network that is geared for growth while ensuring performance and reliability.

In addition, the GS108T supports IEEE 802.3af standard for Power over Ethernet (PoE). It can obtain its power from either a PoE source or from an external AC power adapter. This gives an SMB flexibility when installing the switch in places where a power outlet is not present.

The GS108T comes with an intuitive, Web-browser interface which offer simple Smart Switch management, making it a snap to monitor switch performance, configure ports, even set up port trunks, VLANs, and traffic prioritization. Alternatively, you can use SNMP-based software to manage your Smart Switch. NETGEAR ProSafe Smart Switches are ideal for adding basic management to your unmanaged networks or extending your managed networks.

**Intelligent**

The GS108T provides cost-efficient solutions that enable SMB customers to better manage their network. Included are performance monitoring, port configuration, VLAN for traffic control, link aggregation for increased bandwidth, IGMP snooping for facilitating multicast applications, and Class of Service (CoS) for traffic prioritization.

**Ideal Advanced Security**

These Gigabit Smart Switches have advanced features that provide more robust security to SMBs. These include:

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

**Advanced Quality of Service**

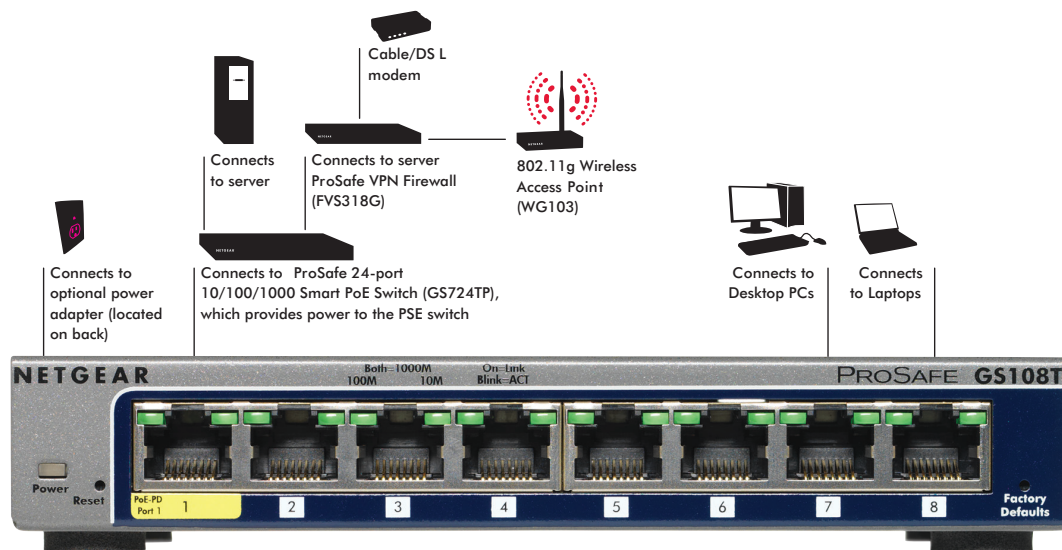
Priority queuing ensures that high-priority traffic gets delivered efficiently, even during congestion from high-traffic bursts. Companies implementing network telephony or video conferencing, for example, need to be able to prioritize such voice and video traffic and other real-time applications over 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 Gigabit Smart Switch provides an extensive set of QoS features:

- 802.1p-based prioritization
- Layer 3-based prioritization
- Rate limiting

**NETGEAR Green**

- Up to 60% lower power consumption
- Auto power-down mode conserves energy when a port is not connected
- Less transmit power when the cable is under 10 m
- Packaging manufactured with at least 80% recycled material





## Technical Specifications

### • Network Protocol and Standards Compatibility

- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3x full-duplex flow control

### • Power Supply

- Power consumption: 6W maximum

### • Network Ports

- 8 10/100/1000 Mbps auto sensing Gigabit Ethernet

### • Physical Specifications

- Dimensions: (W x D x H)  
158 x 105 x 27 mm  
(6.2 x 4.1 x 1.1 in)
- Weight: 0.56 kg (1.23 lb)

### • Performance Specifications

- Forwarding modes: Store-and-forward
- Bandwidth: 16 Gbps full duplex
- Network latency: Less than 15  $\mu$ s for 64-byte frames in store-and-forward mode for 1000 Mbps to 1000 Mbps transmission
- Buffer memory: 128 KB embedded memory per unit
- Address database size: 4k media access control (MAC) addresses per system
- Mean time between failures (MTBF): 278,553 hours (~32 years)
- Acoustic noise: 0 dB

### • Electromagnetic Emissions

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

### • Environmental Specifications

- Operating temperature: 32° to 122° 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

### • Status LEDs

- Per port: Link/activity, speed
- Per device: Power

### • Power Adapter

- 12V, 1.0A power adapter, localized to country of sale
- Alternatively, unit can be powered by IEEE 802.3af PSE via Ethernet port<sup>1</sup>

### • Electromagnetic Immunity

- EN 55024

### • Safety

- CE mark, commercial
- cUL IEC 950/EN 60950
- CB

### • Administrative Switch Management

- IEEE 802.1Q Static VLAN (64 groups, Static)
- Protected ports
- IEEE 802.1p Class of Service (CoS)
- Port-based QoS
- DSCP-based QoS
- DiffServ
- IEEE 802.3ad Link Aggregation (manual or LACP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

- IEEE 802.1s Multiple Spanning Trees Protocol (MSTP)

- IEEE 802.1ab Link Layer Discovery Protocol (LLDP)

- LLDP-MED

- SNMP v1, v2c, v3

- RFC 1213 MIB II

- RFC 1643 Ethernet Interface MIB

- RFC 1493 Bridge MIB

- RMON group 1, 2, 3, 9

- Auto voice VLAN

- DHCP Filtering

- Auto denial-of-service (DoS) protection

- HTTP and HTTPS

- Ping and traceroute

- Green features: Power saving by cable length (<10 m)

- Power saving when link down

- RFC 2131 DHCP client

- DHCP filtering

- IEEE 802.1x with Guest VLAN

- Jumbo frame support

- Port-based security by locked MAC addresses

- MAC and IP-based ACL

- Storm control for broadcast, multicast and unknown unicast packets

- IGMP snooping v1/v2

- Port-based egress rate limiting

- SNMP

- Port mirroring support (Many to one)

- Web-based configuration

- Configuration backup/restore

- Password access control

- TACACS+ and RADIUS support

- Syslog

- Firmware upgradeable

**NETGEAR Related Products**

## Network

- ProSafe® 802.11g Wireless Access Point (WG302)
- ProSafe® 802.11g Wireless Access Point (WG103)
- ProSafe® 802.11n Dual Band Wireless Access Point (WNDAP330)

## Desktops

- Gigabit Ethernet PCI Adapter (GA311)

**System Requirements**

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

**Warranty**

- NETGEAR Lifetime Warranty

**ProSupport Service Packs Available**• **On Call 24 x 7**

- PMB0331-100 (US)
- PMB0331 (non-US)

• **Xpress HW**

- PRR0331

**Package Contents**

- ProSafe® 8-port Gigabit Smart Switch (GS108Tv2)
- AC adapter
- Rubber footpads
- Wall-mount kit
- Resource CD
- Installation guide

**Ordering Information**

- Australia & Asia: GS108T-200AUS
- Europe General: GS108T-200GES
- North America: GS108T-200NAS
- UK: GS108T-200UKS
- Japan: GS108T-200JPS

**NETGEAR®**

350 E. Plumeria Drive  
San Jose, CA 95134-1911  
1-888-NETGEAR (638-4327)  
E-mail: [info@NETGEAR.com](mailto:info@NETGEAR.com)  
[www.NETGEAR.com](http://www.NETGEAR.com)

© 2009 NETGEAR, Inc. NETGEAR, the NETGEAR Logo, NETGEAR Digital Entertainer Logo, Connect with Innovation, FrontView, IntelliFi, PowerShift, ProSafe, ProSecure, RAIDar, RAIDiator, RangeMax, ReadyNAS, Smart Wizard, X-RAID, and X-RAID2, are trademarks and/or registered trademarks of NETGEAR, Inc. and/or subsidiaries in the United States and/or other countries. Mac and the Mac logo are trademarks of Apple Inc., registered in the U.S. and other countries. Other brand names mentioned herein are for identification purposes only and may be trademarks of their respective holder(s). Information is subject to change without notice. All rights reserved.

This product comes with a limited warranty, the acceptance of which is a condition of sale.

\*Basic technical support provided for 90 days from date of purchase.

† IEEE 802.3af PoE capable devices.