



# GS716T

## ProSafe™ 16 Port Gigabit Smart Switch

- Help is there when you need it! NETGEAR provides, 24x7 technical support\* in English, with selected local language support during office hours.

### Management at an Unmanaged Price

Joining NETGEAR's ProSafe family of Smart 16 Port Switches with simple switch management at no extra cost, this 16 port Gigabit switch is high on value and capability. With 16 10/100/1000 Mbps ports, each capable of powering 2000 Mbps of data throughput in full-duplex mode, plus two optional fiber ports, it provides fast backbone and connects servers or power users, delivering large amounts of multimedia, image, and video information in no time at all. Ideal for combining 10, 100, and 1000 Mbps devices it delivers 10/100/1000 automatic speed and full/half-duplex sensing plus Auto Uplink™ on every port. Two hot-swappable Small Form-factor Pluggable (SFP)\*\* GBIC slots provide optional fiber connectivity for greater distance.

In addition, an intuitive, Web-browser interface offers the simple Smart Switch management, making it a snap to monitor switch performance, configure ports, even set up port trunks, VLANs, and traffic prioritization. Alternatively, use SNMP-based software to manage your Smart Switch.\*\*\* Shipped ready for use straight out of the box, it delivers switching that's easy to set up and use. NETGEAR ProSafe Smart Switches are ideal for adding basic management to your unmanaged networks and extending your managed networks

**High Powered** ● Sixteen 10/100/1000 ports deliver non-blocking, full-speed packet forwarding with 32 Gbps bandwidth migrates your network to future-proof functionality. Two SFP GBIC fiber slots provide optional fiber connectivity for greater distance.

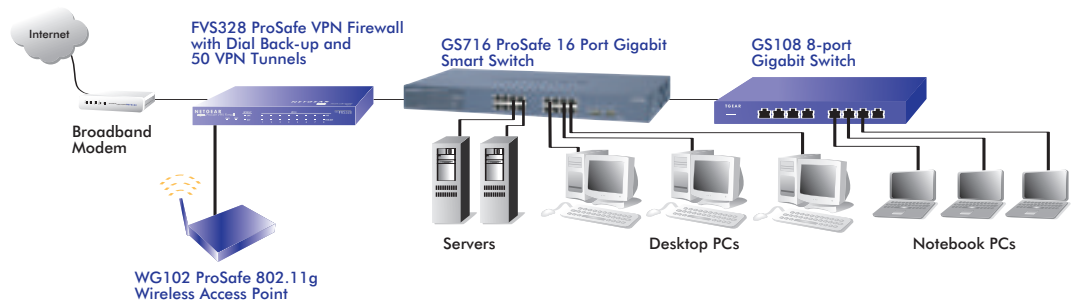
**Intelligent** ● Smart Switch capability enables key management features for the value price of an unmanaged switch. Included are performance monitoring, port configuration, VLAN for traffic control, port trunking for increased bandwidth, and Class of Service (CoS) for traffic prioritization.

**Right Sized** ● Ideal for growing businesses who want the benefits of management without the cost and complexity of an advanced management network.

**Easygoing and Durable** ● Simple to set up and simple to use for effortless network monitoring and troubleshooting. Made to last, this sturdy switch is housed in a 17-inch metal box and comes with a rack mounting kit.

\*\*Use with NETGEAR AGM731F 1000BASE-SX SFP GBIC module or NETGEAR AGM732F 1000BASE-LX SFP GBIC module.

\*\*\*Firmware upgrade available Q2 2005



## 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:** 32 W maximum
  - 100-240VAC/50-60 Hz universal input
- Network Ports:
  - 16 10/100/1000 Mbps auto-sensing Gigabit Ethernet switching ports (RJ-45)
  - 2 SFP slots for SFP GBIC Modules
- Physical Specifications:
  - **Dimensions (W x D x H):** 440 x 205 x 43 mm (17.8 x 8.1 x 1.6 in.)
  - **Weight:** 6.03 lb (2.74 kg)
- Electromagnetic Emissions:
  - CE mark, commercial
  - FCC Part 15 Class A
  - VCCI Class A
  - C-Tick
- LEDs:
  - **Per port:** Link/ Activity, Speed
  - **Per device:** Power
- Electromagnetic Immunity:
  - EN 55024
- Safety:
  - CE mark, commercial
  - cUL 60950 (Listed)/EN60950 (Low Voltage Directive)
- Administrative Switch Management:
  - IEEE 802.1Q Static VLAN (Up to 64)
  - Port-based VLAN (Up to 16)
  - IEEE 802.1p Class of Service (CoS)
  - Port-based QoS
  - IEEE802.3ad (manual) Link Aggregation
  - IEEE 802.1D Spanning Tree Protocol\*\*\*
  - RFC 1157 SNMP v1\*\*\*
  - RFC 1213 MIB II\*\*\*
  - RFC 1643 Ethernet Interface MIB\*\*\*
  - RFC 1493 Bridge MIB\*\*\*
  - RFC 2131 DHCP client
  - Jumbo Frame Support (up to 9,600 bytes)\*\*\*
  - Private Enterprise MIB\*\*\*
  - Port Mirroring Support
  - Web-based configuration
  - Configuration Backup/Restore
  - Password Access Control
  - Firmware upgradeable

## NETGEAR Related Products

- GA311 32-bit Gigabit PCI Adapter
- GA511 PC Card Gigabit Adapter
- ProSafe 5 Port Gigabit Switch GS105
- ProSafe 8 Port Gigabit Switch GS108
- ProSafe 16 Port Gigabit Switch GS116
- ProSafe 24 Port 10/100 Smart Switch with 2 Gigabit Ports FS726T
- ProSafe 48 Port 10/100 Smart Switch with 2 Gigabit Ports FS750T
- GS724T ProSafe 24 Port Gigabit Smart Switch
- GS748T ProSafe 48 Port Gigabit Smart Switch
- P3L21 Layer 2 Support Pack
  - 1 year
- P3L23 Layer 2 Support Pack
  - 3 years

- Performance Specifications:
  - **Forwarding modes:** Store-and-forward
  - **Bandwidth:** 32 Gbps
  - **Network latency:** <20µs for 64-byte frames in store-and-forward mode for 100 Mbps to 100 Mbps transmission
  - **Buffer memory:** 256 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):** 65,789 hours (~7.5 years)
- Modules:
  - AGM731F 1000BASE-SX SFP Module
  - AGM732F 1000BASE-LX SFP Module
- Premium Support & Switch Support Pack Available:
  - P3L21 - 1-Year
  - P3L23 - 3-Year
- Warranty:
  - NETGEAR 5-year warranty

## Package Contents

- 16-port Gigabit Smart Switch GS716T
- Rubber footpads
- Power cord
- Rack-mount kit
- Resource CD
- Installation guide
- Warranty/Support information card

## 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 or Netscape 6.0 or higher)

# NETGEAR®

4500 Great America Parkway  
Santa Clara, CA 95054 USA  
Phone: 1-888-NETGEAR  
E-mail: info@NETGEAR.com  
www.NETGEAR.com

©2005 NETGEAR, Inc. NETGEAR®, Everybody's connecting®, the Netgear logo, Auto Uplink, ProSafe, Smart Wizard and RangeMax are trademarks or registered trademarks of NETGEAR, Inc. in the United States and/or other countries. Microsoft, Windows, and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Other brand and product names are trademarks or registered trademarks of their respective holders. Information is subject to change without notice. All rights reserved.

\* 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.