



# NETGEAR GS716T ProSafe Giga Smart Switch Specifications And Datasheet

[Home](#) » [Support](#) » NETGEAR GS716T ProSafe Giga Smart Switch Specifications And Datasheet 

## Contents

- [1 NETGEAR GS716T ProSafe Giga Smart Switch](#)
- [2 Introduction](#)
- [3 Technical Specifications](#)
- [4 Modules](#)
- [5 Warranty](#)
- [6 ProSupport™ Service Packs Available](#)
- [7 Package Contents](#)
- [8 Ordering Information](#)
- [9 High Powered](#)
- [10 Intelligent](#)
- [11 Right Sized](#)
- [12 Easygoing and Durable](#)
- [13 FAQ's](#)
- [14 Related Posts](#)

# NETGEAR

## NETGEAR GS716T ProSafe Giga Smart Switch



## Introduction

Joining NETGEAR's family of Smart Switches with simple switch management at no extra cost, these 16-port

Gigabit switches are high in value and capability. With 16 or 24 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 a 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 distances.

In addition, an intuitive, Web-browser interface offers simple Smart Switch management, making it a snap to monitor switch performance, configure ports, and 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.

## Technical Specifications

### • Network Protocol and Standards Compatibility

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

### • Interfaces

- **GS716T:** 16 RJ-45 connectors for 10BASE-T, 100BASE-TX and 1000BASE-T (Auto Uplink on all ports)
- 2 SFP slots for fiber Gigabit Ethernet modules

### • Administrative Switch Management

- IEEE 802.1D Spanning Tree Protocol
- RFC 1157 SNMP v1, v2c
- RFC 1213 MIB II
- RFC 1643 Ethernet Interface MIB
- RFC1493 Bridge MIB
- Private Enterprise MIB
- Jumbo Frame Support (up to 9216 bytes)
- IEEE 802.1Q Tag VLAN (up to 64 Static VLAN groups)
- Port-based VLAN (up to 24 groups)
- IEEE 802.1p (Class of Service)
- Diffserv
- Port-based QoS (options High/Normal)
- Port Trunking – Manual as per IEEE802.3ad Link Aggregation
- DHCP client function
- Port mirroring (many to one)
- Port setting
- Web-based configuration, anywhere on the network
- Smartwizard Discovery Utility program auto discovers devices (up to 254 agents/switches); set system configuration to each agent
- Configuration Backup/Restore (easy to configure more than one switch)
- Password access control and Restricted IP Access List
- Firmware upgradeable

- **Active Flow Control**
  - Full-duplex IEEE 802.3x pause frame flow control
  - Half-duplex back-pressure control
- **Performance Specifications**
  - **Forwarding modes:** Store-and-forward
  - **Bandwidth:** GS724T = 48 Gbps, GS716T = 32 Gbps
  - **Network latency:** Less than 20  $\mu$ s for 64- byte frames in store-and-forward mode for 100 Mbps to 100 Mbps transmission
  - **Buffer memory:** 256 KB embedded memory per unit
  - **Priority Queues:** 4
  - **Priority Queuing:** Weighted Round Robin (WRR)
  - **Address database size:** 8,000 media access control (MAC) addresses per system
  - **Addressing:** 48-bit MAC address
  - **Mean Time Between Failure (MTBF):** GS724T = 115,221 hours (~ 13 years), GS716T = 65,789 (~7.5 years)
- **Acoustic Noise:**
  - GS716T = 42.5 dBA
- **LEDs**
  - **Unit:** power
  - **Per port:** link, activity, speed, duplex
- **Power Supply**
  - **Power Consumption:** 29 W maximum
  - 100-240VAC/50-60 Hz universal input
- **Physical Specifications**
  - **Dimensions (h x w x d):** 1.7 x 17.3 x 8.1 in (43 x 440 x 205 mm)
  - **Weight:** 5.9 lb (2.7 kg)
- **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 Agency Approvals**
  - UL listed (UL 1950)/cUL
  - IEC950/EN60950

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

## **System Requirements**

- Category 5 network cables
- Network card for each PC
- Network software (e.g., Windows®)

## **Modules**

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

## **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 Gigabit Smart Switch (GS724T)
- Rubber footpads
- Power cord
- Rack-mount kit
- Smart Switch resource CD
- Smart Switch installation guide
- Warranty/support information card

## **Ordering Information**

**GS716T**

- **North America:** GS716TNA
- **Europe:** GS716TEU
- **Asia:** GS716TAU
- **Japan:** GS716TJP

## High Powered

Sixteen or 24 10/100/1000 ports deliver non-blocking, full-speed packet forwarding with 48 Gbps bandwidth migrating 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.

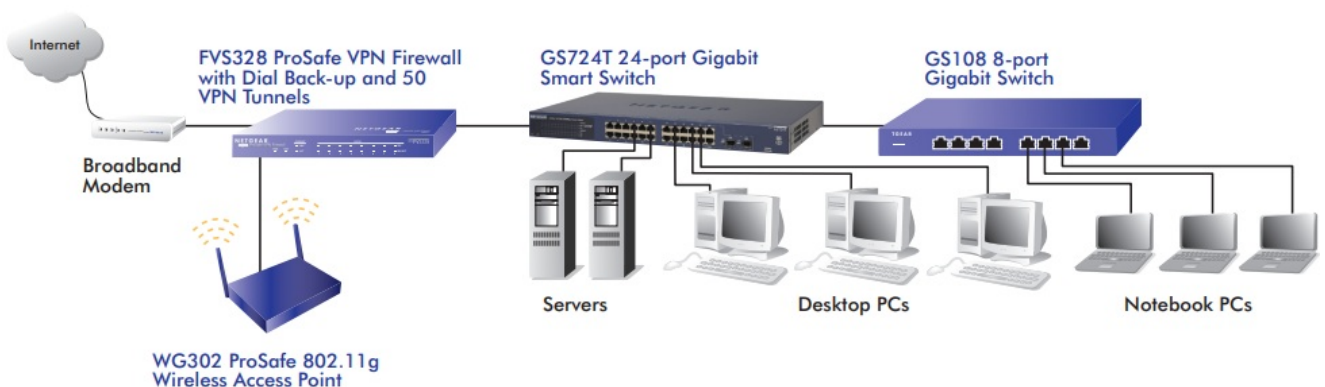
## Right Sized

Ideal for growing businesses that want the benefits of management without the cost and complexity of traditional managed switches.

## 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 ProSafe AGM731F 1000BASE-SX SFP GBIC module, ProSafe AGM732F 1000BASE-LX SFP GBIC module or ProSafe AGM733 1000BASE-ZX SFP GBIC.



## FAQ's

What is the NETGEAR GS716T ProSafe Giga Smart Switch?

The NETGEAR GS716T ProSafe Giga Smart Switch is a high-performance network switch that provides reliable and efficient connectivity for small to medium-sized businesses.

How many ports does the GS716T switch have?

The GS716T switch has 16 Gigabit Ethernet ports, allowing you to connect multiple devices to your network.

Is the GS716T switch a managed or unmanaged switch?

The GS716T is a managed switch, providing advanced features and greater control over your network.

What management features does the GS716T switch offer?

The switch offers features such as VLAN support, QoS (Quality of Service) prioritization, link aggregation, and SNMP (Simple Network Management Protocol) for efficient network management.

Can I set up virtual LANs (VLANs) with this switch?

Yes, the GS716T switch supports VLANs, allowing you to create separate logical networks within your physical network for improved security and network segmentation.

Does the switch support link aggregation?

Yes, the GS716T switch supports link aggregation (also known as port trunking or LACP), which combines multiple ports into a single logical link for increased bandwidth and redundancy.

Is the switch compatible with PoE (Power over Ethernet)?

No, the GS716T switch does not support PoE. If you require PoE functionality, you may consider other models in the NETGEAR ProSafe Giga Smart Switch lineup.

Can I prioritize network traffic using Quality of Service (QoS) with this switch?

Yes, the GS716T switch supports QoS, allowing you to prioritize certain types of network traffic, ensuring critical applications receive the necessary bandwidth.

Does the switch support IPv6?

Yes, the GS716T switch is IPv6 ready, enabling you to future-proof your network and support the latest IP addressing protocols.

Can I monitor and manage the switch remotely?

Yes, the switch supports remote management through its web-based graphical user interface (GUI) or via SNMP, allowing you to monitor and configure it from a central location.

Is the switch rack-mountable?

Yes, the GS716T switch is designed for rack mounting, offering convenient installation in a standard network rack.

What warranty is provided for the GS716T switch?

NETGEAR typically provides a limited lifetime warranty for the GS716T ProSafe Giga Smart Switch. However, warranty terms may vary, so it's recommended to refer to the product documentation or contact NETGEAR support for specific warranty details.

**Download This PDF Link: [NETGEAR GS716T ProSafe Giga Smart Switch Specifications And Datasheet](#)**

[Manuals+](#).