

Management at an Unmanaged Price



Joining NETGEAR's family of Smart Switches with simple switch management at no extra cost, these 16- and 24-port Gigabit switches are high on 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 per port, 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**

16 or 24 10/100/1000 ports deliver non-blocking, full-speed packet forwarding with 48 Gbps bandwidth migrates your network to future-proof functionality. Two Dual Personality 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.

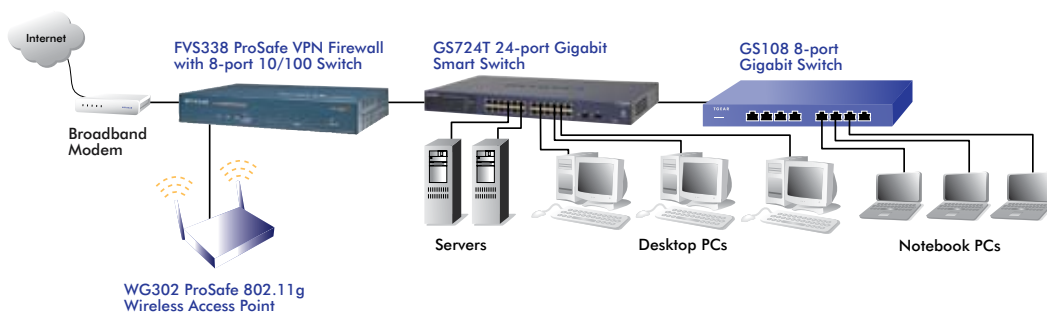
**Right-sized**

Ideal for growing businesses who want the benefits of management without the cost and complexity of 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.



## 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**
  - GS724T: 24 RJ-45 connectors for 10BASE-T, 100BASE-TX, and 1000BASE-T (Auto Uplink on all ports)
  - GS716T: 16 RJ-45 connectors for 10BASE-T, 100BASE-TX and 1000BASE-T (Auto Uplink on all ports)
  - 2 Dual Personality 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
  - GS716T: 64 Static VLANs
    - Supports 16 port-based VLAN
  - GS724T: 128 Static VLANs
    - Supports 24 port-based VLAN
  - IEEE 802.1p (Class of Service)
  - DSCP - L3 QoS
  - Port-based QoS (options High/Normal)
  - Port Trunking - Manual as per IEEE802.3ad Link Aggregation
  - DHCP client function
  - Access Control: Trusted MAC
  - Broadcast storm control (GS724T only)
  - 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:
  - GS716T average latency 34.8 us for 100 Mbps with 64 bytes
  - GS724T average latency 10.59 us for 100 Mbps with 64 bytes
- 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 failures (MTBF):
  - GS716T = 59,500 hours (~6.8 years)
  - GS724T = 59,500 hours (~6.8 years)
- Acoustic Noise:
  - GS724T = 41 dBA
  - GS716T = 42.5 dBA

## LEDs

- Unit: Power
- Per port: Link, activity, speed, duplex

## Power Supply

- Power Consumption:
  - GS716T - 32W
  - GS724T - 43.2W
- 100-240V AC/50-60 Hz universal input

## Physical Specifications

- Dimensions (h x w x d):
  - GS716T: 43 x 440 x 205 mm (1.7 x 17.3 x 8.1 in)
  - GS724T: 43 x 440 x 260 mm (1.7 x 17.3 x 10.2 in)
- Weight:
  - GS716T: 3.5 kg (7.7 lb)
  - GS724T: 3.6 kg (7.9 lb)

## 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
- IEC 950/EN 60950
- CE mark, commercial
- CUL 60950 (Listed)/EN 60950 (Low Voltage Directive)

## System Requirements

- Category 5 UTP network cables or better
- 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

### • OnCall 24x7, Category 1

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

### • XPressHW, Category 1

- PRR0331

## Package Contents

- 16- or 24-port Gigabit Smart Switch (GS716T or 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

**• GS724T**

- North America: GS724TNA
- Europe: GS724TEU
- Asia: GS724TAU
- Japan: GS724TJP

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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 5 years.