

# GS116

## 16-port Gigabit Switch

10/100/1000 Mbps



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

### ● Power Up Your Small Network to Gigabit Speeds

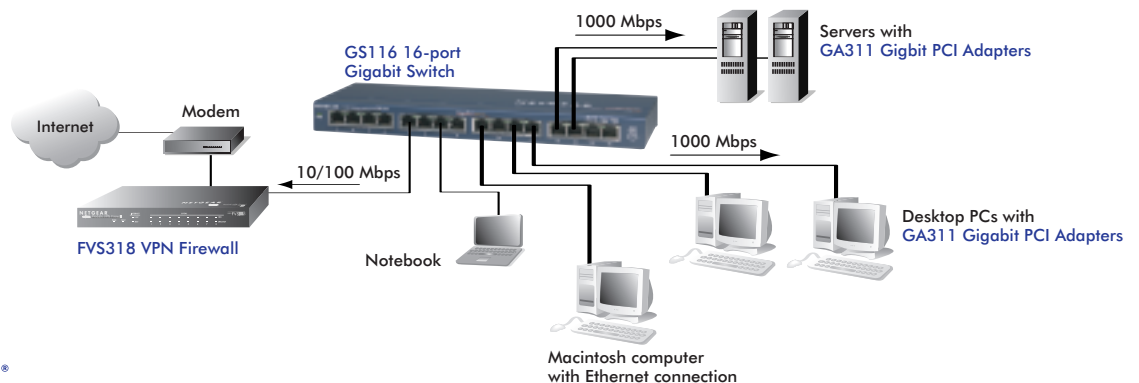
Now you can have a powerful, high-speed network on a small scale. NETGEAR's GS116 Gigabit Ethernet Switch lets you build a system that provides a full, dedicated 1000 Mbps connections so you can move very large files across your network instantly. The standards-based GS116 helps to protect your existing and future network infrastructure investments by painlessly integrating other 10, 100, and 1000 Mbps devices. This potent switch is ideal for workgroups or quickly upgrading workstations to full Gigabit speed, plus it's packed with ease-of-use features to simplify your workday experience. It's compact design fits neatly into small work spaces and, since it's self-cooling without a fan, it runs silently and unobtrusively.

**Power-Packed** ● Moves huge files fast! Features 16 high-speed, auto-switching 10/100/1000 Mbps Ethernet connections. And because Copper Gigabit Ethernet is a full duplex standard, you can get up to 2000 Mbps on each port.

**Versatile** ● Integrates 10, 100, and 1000 Mbps devices on the same network and will honor Layer 2 802.1p traffic priority tags. Every port automatically senses the right speed and full/half duplex mode, while Auto Uplink™ technology automatically adjusts for straight-through or crossover cables.

**Accommodating** ● LEDs embedded in each of the 16 RJ-45 jacks make for easy monitoring. Space-saving dimensions are ideal for desktop or wall mounting in home, small office, workgroups, departments and conference room environments. Its durable metal case has no fan for silent operation. Compatible with either PC, Macintosh, Unix, or Linux operating systems.

**Solid** ● Providing plug-&-play simplicity with exceptional performance and reliability, the GS116 is a cost effective solution for your growing network. This switch is made to last and NETGEAR backs it with a solid warranty: switch - 5 years, power supply - 2 years.



## Product Specifications

- **Network Ports:**
  - 16 auto-speed-sensing UTP ports
- **Forwarding Mode:**
  - Store-and-Forward
- **Performance:**
  - **Bandwidth:** 32 Gbps (non-blocking)
  - **Forward Rate (10 Mbps port):** 14,800 packets/sec
  - **Forward Rate (100 Mbps port):** 148,000 packets/sec
  - **Forward Rate (1000 Mbps port):** 1,488,000 packets/sec
  - **Latency (100 to 100 Mbps):** 40  $\mu$  (max)
  - **Latency (1000 to 1000 Mbps):** 10  $\mu$  (max)
  - **Queue Buffer Memory:** 512 Kbytes per port
  - **MAC address database:** 8,000
  - **Acoustic Noise:** 0 dB
  - **Heat Dissipation:** 38.8 BTU/hr
- **AC Power:**
  - 25 W max and 5 V @ 5 A DC input
- **Status LEDs:**
  - Power, activity and link indicators for each port
  - Link and speed indicators built into each RJ-45 port
- **Physical Specifications:**
  - **Dimensions (h x w x d):** 27 x 285 x 103 mm (1.06 x 11.22 x 4.06 in)
  - **Weight:** 0.9 kg (2 lbs)
- **Environmental Specifications:**
  - **Operating temperature:** 0 to 40° C (32 to 104° F)
  - **Operating humidity:** 10% to 90% noncondensing
- **Safety Agency Approvals:**
  - CE Mark, Commercial UL listed (UL 1950), C-Tick
- **Electromagnetic Compliance:**
  - CE mark, commercial FCC Part 15 Class A, EN 55 022 (CISPR 22), Class A VCCI, Class A C-Tick
- **Standards Compliance:**
  - IEEE 802.3i 10BASE-T Ethernet
  - IEEE 802.3u 100BASE-TX Fast Ethernet
  - IEEE 802.3ab 1000BASE-T Gigabit Ethernet
  - IEEE 802.1p, WWR scheduling
- **Warranty:**
  - Switch: NETGEAR 5-year warranty
  - Power adapter: NETGEAR 2-year warranty

## System Requirements

- UTP Category 5 or better cables
- Network card for each PC or server (e.g. GA302T)
- Network software (e.g., Windows, Linux®, Mac OS)

## Package Contents

- 16-port Gigabit Switch GS116
- Wall-mount kit
- AC adapter
- Installation guide
- Warranty/Support information card

## NETGEAR Related Products

- GA311 PCI Gigabit Ethernet Adapter for Desktops
- GS105 5-port Gigabit Switch
- GS108 8-port Gigabit Switch
- GS516T 16-port Gigabit Switch
- GS524T 24-port Gigabit Switch
- GS724T 24-port Gigabit Smart Switch

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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.