



ProSafe® 16-port Gigabit Desktop Switch GS116

Data Sheet

Power up Your Small Network to Gigabit Speeds



Now you can have a powerful, high-speed network on a small scale. NETGEAR's ProSafe GS116 Gigabit Ethernet Switch lets you build a system that provides 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. The GS116 supports jumbo frames up to 9,000 Bytes for extra large transfers.

Versatile

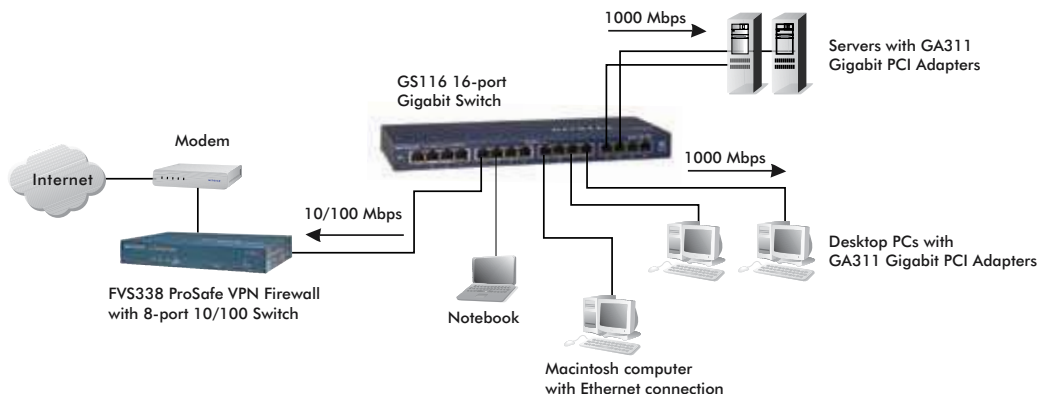
Integrates 10, 100, and 1000 Mbps devices on the same network and will honor Layer 2 802.1p and Layer 3 DSCP traffic priority tags. Every port automatically senses the right speed and full/ half duplex mode, while Auto Uplink™ technology automatically adjusts for straight-through or crossover cables.

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 PC, Macintosh, Unix, or Linux operating systems.

Solid

Providing plug-and-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 lifetime warranty.



Technical Specifications**• Network Ports**

- 16 RJ-45 auto-sensing 10/100/1000 Mbps 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 μ (max)
- Latency (1000 to 1000 Mbps): 10 μ (max)
- Queue buffer memory: 512 Kbytes per port
- MAC address database: 8,000
- Acoustic noise: 0 dB
- Heat dissipation: 38.8 Btu/hr
- Mean time between failures (MTBF): 393,000 hours (~45 years)

• AC Power

- 18W max and 12V @ 1.5A 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: (w x d x h) 285 x 103 x 27 mm (11.22 x 4.06 x 1.06 in)
- Weight: 0.99 kg (2.2 lb)

• Environmental Specifications

- Operating temperature: 0° to 50° C (32° to 122° F)
- Operating humidity: 10% to 90% non-condensing

• 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
- Honors 802.1p priority tags
- Honors DSCP priority tags

System Requirements

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

Warranty

- Switch: NETGEAR Lifetime Warranty†
- Power adapter: NETGEAR 2-year Warranty

ProSupport™ Service Packs Available**• OnCall 24x7**

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

• XPressHW

- PRR0331

Package Contents

- ProSafe 6-port Gigabit Desktop Switch (GS116)
- Wall-mount kit
- AC adapter
- Installation guide
- Warranty/support information card

NETGEAR Related Products**• Accessories**

- 32-bit Gigabit PCI Adapter (GA311)
- Gigabit PC Card Adapter (GA511)

• Switches

- ProSafe 5-port Gigabit Desktop Switch (GS105)
- ProSafe 8-port Gigabit Desktop Switch (GS108)

Ordering Information

- North America: GS116NA
- Europe - General: GS116GE
- Europe - UK: GS116UK
- Asia: GS116AU
- Japan: GS116JP



NETGEAR®

4500 Great America Parkway
Santa Clara, CA 95054 USA
1-888-NETGEAR (638-4327)
E-mail: info@NETGEAR.com
www.NETGEAR.com

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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 for switch, 2 years for power supply.