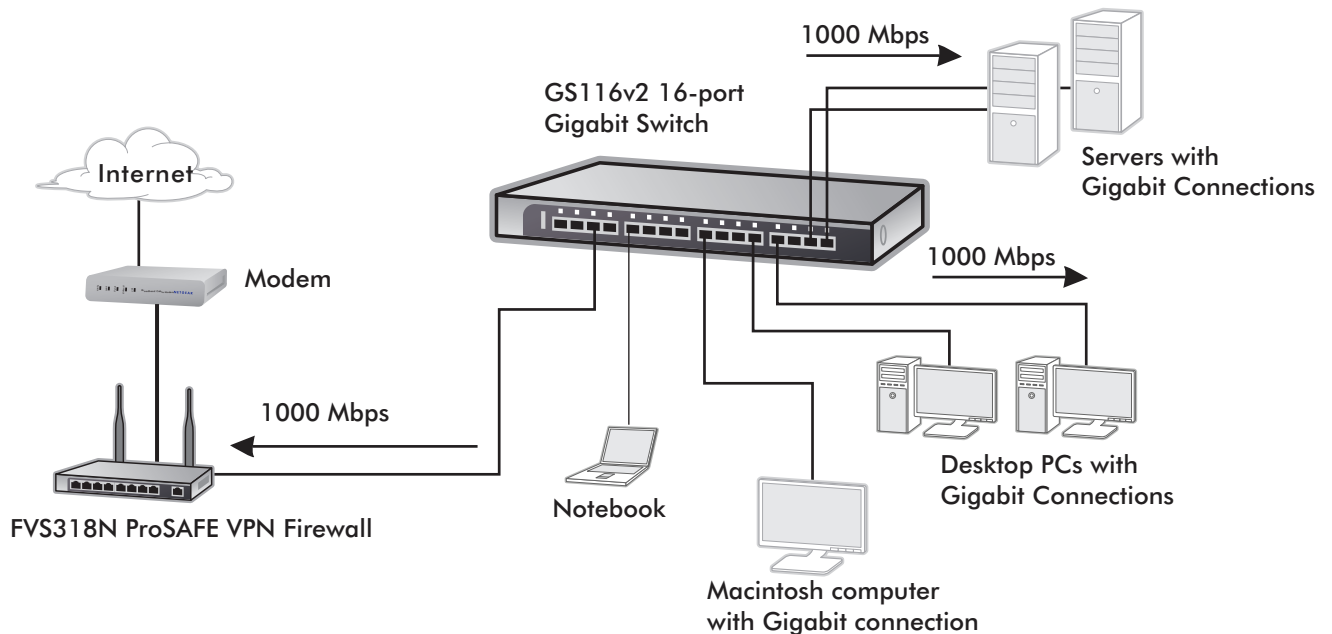# NETGEAR®

ProSAFE® 16-port Gigabit Desktop Switch

Power up Your Small Network to Gigabit Speeds

- Delivers Gigabit speeds—up to 10x faster than Fast Ethernet
- Integrates 10/100/1000 Mbps devices on the same network
- Fits neatly into small workspaces–compact, metal case
- Runs silently without a fan
- Auto green mode detects cable length and adjusts power usage to save energy

Highlights

- Each port delivers up to 2000 Mbps of network speed (full duplex)
- Fast, auto-switching and auto-sensing 10/100/1000 Mbps Ethernet connection
- 16 switched ports provide bandwidth for PCs, servers or switches

- Auto Uplink™ automatically adjusts for straight-through or crossover cables
- Supports jumbo frames up to 9 KB
- Honors TOS/802.1p prioritization
- Up to 43% lower power consumption **

- Auto power-down mode saves energy when port is unused
- Auto green mode detects cable length and adjusts power usage to save energy
- Packaging manufactured with at least 80% recycled materials

Technical Specifications

Network Ports

- 16 auto-sensing 10/100/1000 Mbps Ethernet 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)

Power Consumption

- 12V DC, 1.5A, 18W; plug is localized to country of sale

Status LEDs

- Power, link, speed and activity

Physical Specifications

Dimensions (w x d x h):

- 11.22 x 4.06 x 1.06 in
- 285 x 103 x 27 mm

Weight

- 1.08 kg (2.38 lb)

Environmental Specifications

Operating temperature

- 0º to 50º C (32º to 122° F)

Operating humidity

- 90% maximum relative humidity, non-condensing

Safety Agency Approvals

- CE mark, commercial
- UL listed (UL 1950)
- C-Tick

Electromagnetic Compliance

- CE Class A
- FCC Part 15 Class A
- EN 55022 (CISPR 22)
- EN 55024
- VCCI Class A
- C-Tick Class A

Standards Compliance

- IEEE 802.3i 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3ab 1000BASE-T
- Honors 802.1p priority tags
- Honors DSCP priority tags
- Jumbo frame support: up to 16 KB

System Requirements

- Category 5e cables or better
- Network card for each PC or server (e.g. NETGEAR GA311)
- Network software (e.g., Microsoft® Windows®, Linux®, Mac® OS)

Warranty

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

ProSUPPORT Service Packs Available

- On Call 24 x 7
  - PMB0331-100 (US)
  - PMB0331 (non-US)
- Xpress HW
  - PRR0331

Package Contents

- ProSAFE 16-port Gigabit Desktop Switch (GS116v2)
- Wall-mount kit
- AC adapter
- Installation guide

NETGEAR Related Products

Switches

- ProSAFE 5-port Gigabit Desktop Switch (GS105)
- ProSAFE 8-port Gigabit Desktop Switch GS108)
- ProSAFE 16-port Gigabit Plus Switch (GS116E)

Ordering Information

North America
GS116NA

Europe – General
GS116GE

Europe – UK
GS116UK

Asia
GS116AU

Japan
GS116-200JPS

** when comparing with non-Green models

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