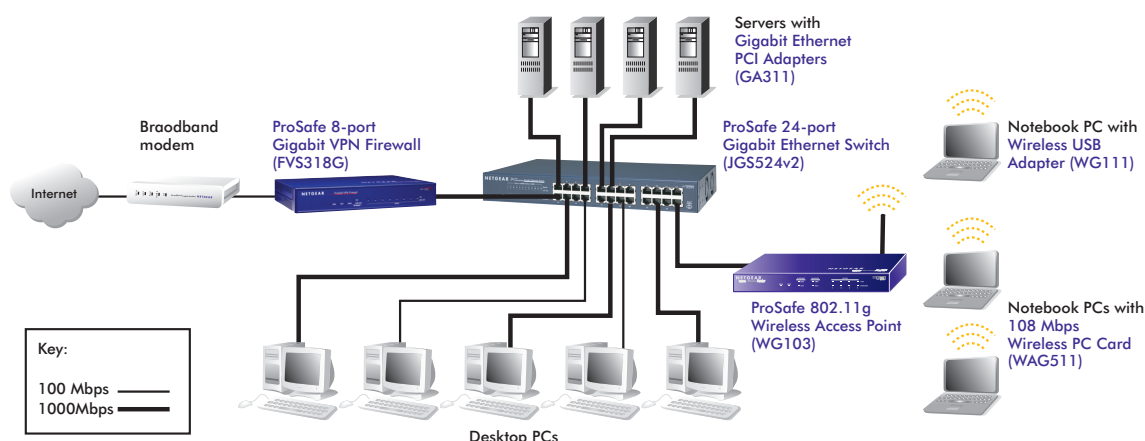## Take Gigabit to the Desktop

- 16 or 24 ports deliver up to 2000 Mbps of dedicated, non-blocking bandwidth per port
- Instant Plug-N-Play connectivity with Auto-negotiation and Auto MDI/MDI-X
- Easily combine new or existing 10-, 100- and 1000-Mbps devices within your network
- 802.1p QoS support for prioritizing voice and video in the network
- Jumbo Frame Support up to 16 KB

Features

- 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 or 24 switched ports provide bandwidth for PCs, servers or switches
- Auto Uplink™ automatically adjusts for straight-through or crossover cables
- Plug and play—begins working as soon as it is powered on
- Integrates 10-,100- and 1000-Mbps devices into your network
- Compact size for desktop or for mounting in a standard 19-inch rack
- Secure, durable metal housing includes a Kensington locking slot for theft prevention
- Backed by a NETGEAR Lifetime Warranty†
- Supports jumbo frames up to 16 KB
- Honors TOS/802.1p prioritization

NETGEAR Green

- Up to 50% 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

Key:
100 Mbps ———
1000Mbps ▬▬▬

Internet
Braodband modem
ProSafe 8-port Gigabit VPN Firewall (FVS318G)
Servers with Gigabit Ethernet PCI Adapters (GA311)
ProSafe 24-port Gigabit Ethernet Switch (JGS524v2)
Notebook PC with Wireless USB Adapter (WG111)
ProSafe 802.11g Wireless Access Point (WG103)
Notebook PCs with 108 Mbps Wireless PC Card (WAG511)
Desktop PCs

24/7
TECHNICAL SUPPORT*
*Basic technical support free for 90 days only

1-888-NETGEAR (638-4327)
UK: 0844-875-4000
Australia: 1300-361-254
Email: info@NETGEAR.com

NETGEAR® PROSAFE® LIFETIME WARRANTY

Technical Specifications

• Network Ports
– JGS516: 16 10/100/1000 Mbps Ethernet RJ-45 ports
– JGS524: 24 10/100/1000 Mbps Ethernet RJ-45 ports

• Performance
– Switching bandwidth:
  – JGS516: 32 Gbps
  – JGS524: 48 Gbps
– Forwarding Rate:
  – 10 Mbps port: 14,880 frames/sec
  – 100 Mbps port: 148,800 frames/sec
  – 1000 Mbps port: 1,488,000 frames/sec
– Latency (using 64 byte packets):
  – 10 Mbps: 70 μs (max)
  – 100 Mbps: 10 μs (max)
  – 1000 Mbps: 4 μs (max)
– RAM buffer: 512 KB
– MAC address database: 8 K
– Mean time between failures (MTBF):
  – JGS516: 238,000 hours (~ 27 years)
  – JGS524: 186,000 hours (~ 21 years)

• Power Consumption
– Power cord: 100-240V; 50-60 Hz; plug is localized to country of sale
– JGS516: 13W max
– JGS524: 19W max

• Standards Compliance
– IEEE 802.3i 10BASE-T Ethernet
– IEEE 802.3u 100BASE-TX Fast Ethernet
– IEEE 802.3ab 1000BASE-T Gigabit Ethernet
– IEEE 802.3x flow control
– Jumbo frame support (up to 16 KB)

• Status LEDs
– Unit: power
– Per network port: Link, activity, speed

• Physical Specifications
– Dimensions (h x w x d): 43 x 320 x 170 mm (1.7 x 12.6 x 6.7 in)
– Weight:
  – JGS516: 1.625 kg (3.58 lb)
  – JGS524: 1.745 kg (3.84 lb)

• Environmental Specifications
– Operating temperature: 0° to 50° C (32° to 122° F)
– Operating humidity: 90% maximum relative humidity, non-condensing
– Storage temperature: -20° to 70° C (-4° to 158° F)
– Storage humidity: 10 to 95% relative humidity

• Electromagnetic Compliance
– CE Class A, included EN 55022 (CISPR 22) and EN 55024
– FCC Part 15 Class A
– VCCI Class A
– C-Tick Class A

• Safety Agency Approvals
– UL (UL 60950-1)/ cUL
– CE LVD (EN 60950-1) CB,CCC,KCC

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

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 Ethernet Switch (JGS516v2 or JGS524v2)
– Power cord
– Installation guide
– Rack-mount kit
– Warranty/support information card

NETGEAR Related Products
– Copper Gigabit PCI Adapter (GA311)
– 5-port Gigabit Ethernet Switch (GS105)
– 8-port Gigabit Ethernet Switch (GS108)
– 16-port Gigabit Ethernet Switch (GS116)

Ordering Information

• JGS516
– North America: JGS516NA
– Europe: JGS516-200EUS
– Asia: JGS516AU
– Japan: JGS516-300JPS

• JGS524
– North America: JGS524NA
– Europe: JGS524-200EUS
– Asia: JGS524AU
– Japan: JGS524-300JPS

*Basic technical support provided for 90 days from date of purchase.

**Maximum power savings when compared to previous version of this NETGEAR product.

†Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building material and construction, and network overhead, lower actual data throughput rate.

‡Lifetime warranty for product purchased after 05/01/2007.