

Take Gigabit to the Desktop



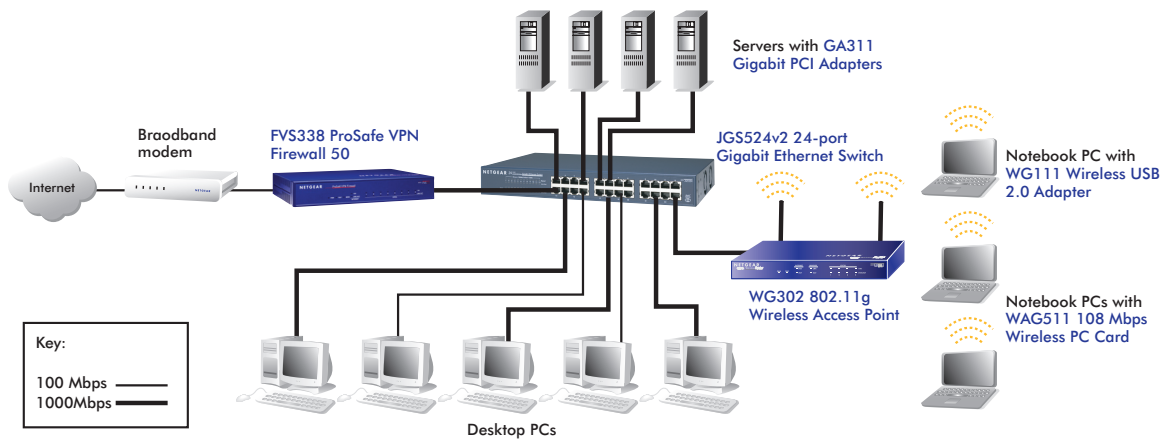
- 16 or 24 ports deliver up to 2000 Mbps of dedicated, non-blocking bandwidth per port
- Up to 50% lower power consumption**
- Auto power-down mode saves energy when port is unused
- Auto green mode detects cable length and adjusts power usage to save energy
- Easily combine new or existing 10-, 100- and 1000-Mbps devices within your network

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
- No fuss, unmanaged operation
- 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



- 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



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 1518-byte packets):
 - 10 Mbps: 72 μ s (max)
 - 100 Mbps: 12 μ s (max)
 - 1000 Mbps: 6 μ s (max)
- RAM buffer: 512 K
- MAC address database: 8 K
- Mean time between failures (MTBF):
 - JGS516: 309,000 hours (~ 35 years)
 - JGS524: 230,000 hours (~ 26 years)
- Acoustic noise: 40 dB

• Power Consumption

- Power cord: 100-240V; 50-60 Hz; plug is localized to country of sale
- JGS516: 11W max
- JGS524: 16W 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: 1.54 kg (3.39 lb)
 - JGS524: 1.62 kg (3.57 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)

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: JGS516-100EUS
- Asia: JGS516AU
- Japan: JGS516-200JPS

• JGS524

- North America: JGS524NA
- Europe: JGS524-100EUS
- Asia: JGS524AU
- Japan: JGS524-200JPS

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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.

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

†Lifetime warranty for product purchased after 05/01/2007. For product purchased before 05/01/2007, warranty is 5 years.

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