

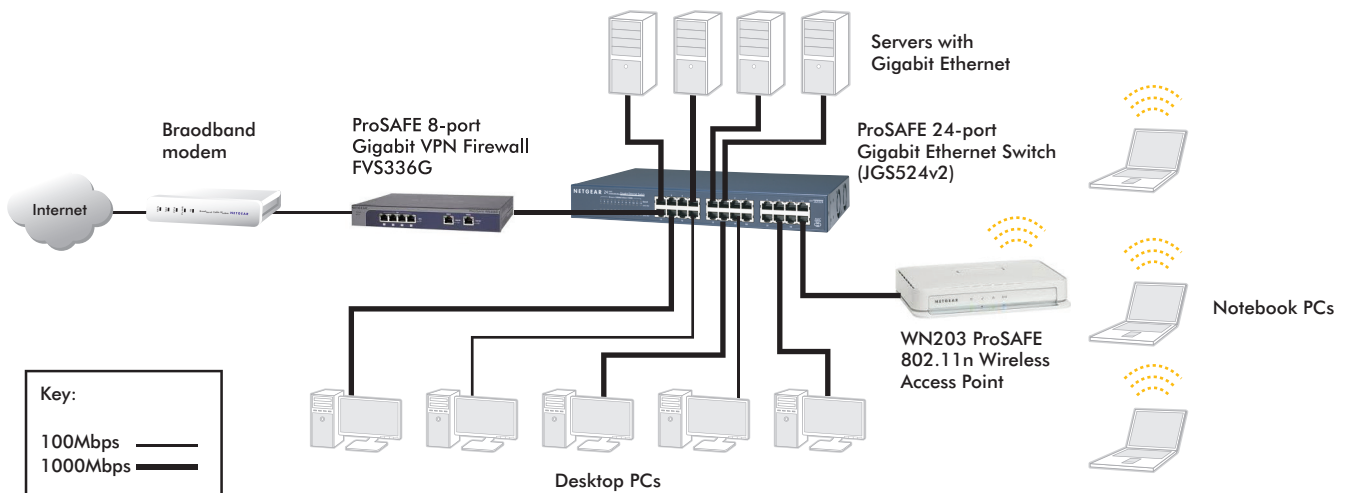
### Take Gigabit to the Desktop



- 16 or 24 ports deliver up to 2000Mbps 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 1000Mbps devices within your network
- 802.1p QoS support for prioritizing voice and video in the network
- Jumbo Frame Support up to 9KB

### Features

- Each port delivers up to 2000Mbps of network speed (full duplex)
- Fast, auto-switching and auto-sensing 10/100/1000Mbps 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 1000Mbps 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\*
- 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 10/100/1000Mbps Ethernet RJ-45 ports
- JGS524: 24 10/100/1000Mbps Ethernet RJ-45 ports

#### Performance Specifications

##### Switching bandwidth

- JGS516: 32Gbps
- JGS524: 48Gbps

##### 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)

- 10Mbps: 35µs (max)
- 100Mbps: 30µs (max)
- 1000Mbps: 15µs (max)

##### RAM buffer

- 256KB

##### MAC address database

- 8K

##### Mean time between failures (MTBF)

- JGS516: 441,123 hours
- JGS524: 238,872 hours

#### Power Consumption

- Power cord: 100-240V; 50-60Hz; plug is localized to country of sale
- JGS516: 11.8W max
- JGS524: 17.9W 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
- IEEE 802.3 CAMA/CD
- IEEE 802.3az Energy Efficient Ethernet
- Jumbo frame support (up to 9KB)

#### Status LEDs

##### Unit

- Power

##### Per network port:

- Link, activity, speed

#### Physical Specifications

##### Dimensions (w x d x h)

- 328 x 169 x 43mm (12.9 x 6.7 x 1.7in)

##### Weight

- JGS516: 1.47kg (3.24lb)
- JGS524: 1.65kg (3.64lb)

#### Environmental Specifications

##### Operating temperature

- 32° to 122°F (0° to 50°C)

##### Operating humidity

- 90% maximum relative humidity, non-condensing

##### Storage temperature

- -4° to 158°F (-20° to 70°C)

##### Storage humidity

- 10 to 95% relative humidity

#### Electromagnetic Emissions

- CE Class A, including EN 55022 (CISPR 22) and EN 55024
- FCC Part 15 Class A
- VCCI Class A
- C-Tick Class A
- KCC
- CCC

#### Safety Agency Approvals

- UL (UL 60950-1)/ cUL
- CE LVD (EN 60950-1)
- CB
- KCC
- CCC
- RU EAC

#### System Requirements

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

#### ProSupport Service Packs Available

##### OnCall 24x7, Category 1

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

#### Package Contents

- 16- or 24-port Gigabit Ethernet Switch (JGS516v2 or JGS524v2)
- Power cord
- Installation guide
- Rack-mount kit
- Warranty/support information card

#### 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
- China: JGS524-200PRS

\* This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and modifications to product may void the warranty; covers hardware, fans, and internal power supplies—not software or external power supplies; see <http://www.netgear.com/about/warranty/> for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller. This product was tested for quality and its components may be recycled. For indoor use only.

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

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