NETGEAR®

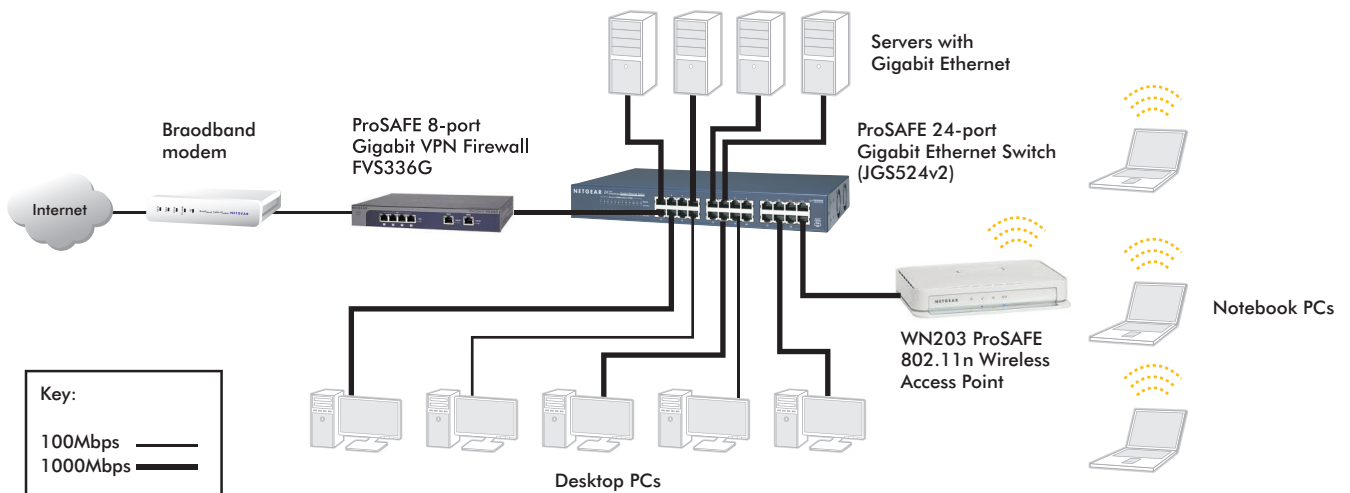## ProSAFE® 16- and 24-port Gigabit Ethernet Switches

Data Sheet

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

Key:
100Mbps
1000Mbps

Internet

Braodband modem

ProSAFE 8-port Gigabit VPN Firewall FVS336G

Servers with Gigabit Ethernet

ProSAFE 24-port Gigabit Ethernet Switch (JGS524v2)

WN203 ProSAFE 802.11n Wireless Access Point

Notebook PCs

Desktop PCs

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 fl ow 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 158ºF (-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)

Warranty
- NETGEAR Lifetime Warranty*

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

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