NETGEAR
BUSINESS

Data Sheet | **JGS516v2, JGS524v2**

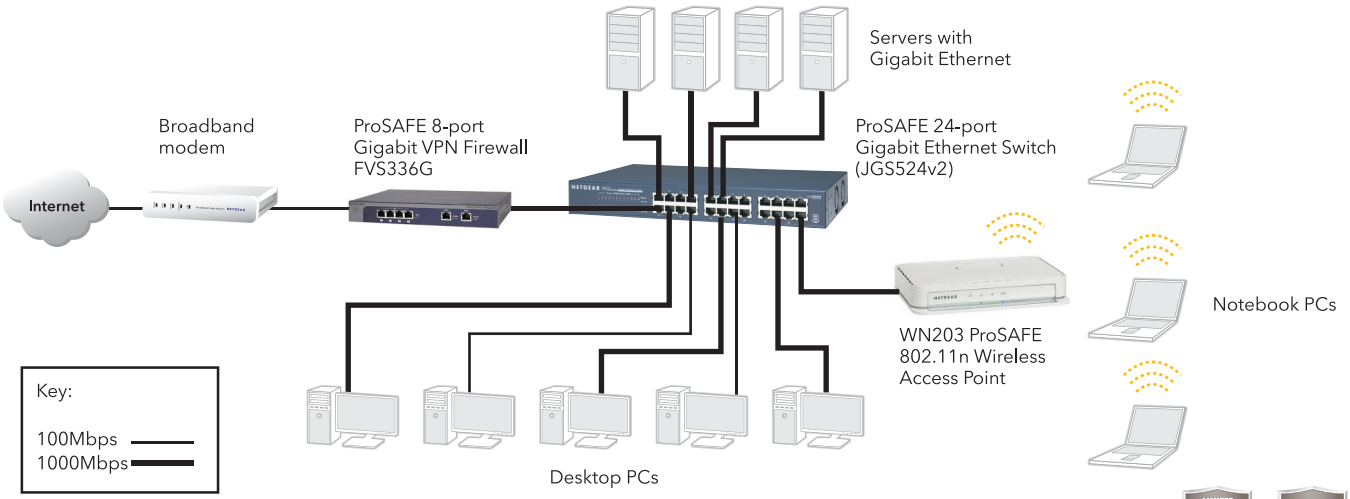
16- and 24-port Gigabit Ethernet Switches



Take Gigabit to the Desktop

Features and Highlights

- 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
- 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 Limited 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



https://www.conecticplus.com/

Network Ports	JGS516	JGS524
Multicast Groups	16 10/100/1000Mbps Ethernet RJ-45 ports	24 10/100/1000Mbps Ethernet RJ-45 ports
Performance Specifications		
Switching bandwidth	32Gbps	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)	441,123 hours	238,872 hours
Power Consumption	11.8W max	17.9W max
Power Cord	100-240V; 50-60Hz; plug is localized to country of sale	
Jumbo Frame Support	up to 9KB	
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	
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	1.47kg (3.24lb)	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		
Certifications	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	

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Safety Agency Approvals	
Certifications	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 Limited Lifetime* Warranty
ProSupport Service Packs Available	
OnCall 24x7, Category 1	PMB0331-100 (US) PMB0331 (non-US)
Package Contents	
All models	16- or 24-port Gigabit Ethernet Switch (JGS516v2 or JGS524v2) Power cord Installation guide Rackmount kit Warranty/support information card

Ordering Information

JGS516	
JGS516NA	North America
JGS516-200EUS	Europe
JGS516AU	Asia
JGS516-300JPS	Japan
JGS524	
JGS524NA	North America
JGS524-200EUS	Europe
JGS524AU	Asia
JGS524-300JPS	Japan
JGS524-200PRS	China

* This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and covers unmodified hardware, fans and internal power supplies – not software or external power supplies, and requires product registration at https://www.netgear.com/business/registration within 90 days of purchase; see https://www.netgear.com/about/warranty for details. Intended for indoor use only.

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

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