JGS500 Series
16- and 24-port Gigabit Ethernet Switches
10/100/1000 Mbps

- *Help is there when you need it! NETGEAR provides 24x7 technical support* in English, with selected local language support during office hours.*
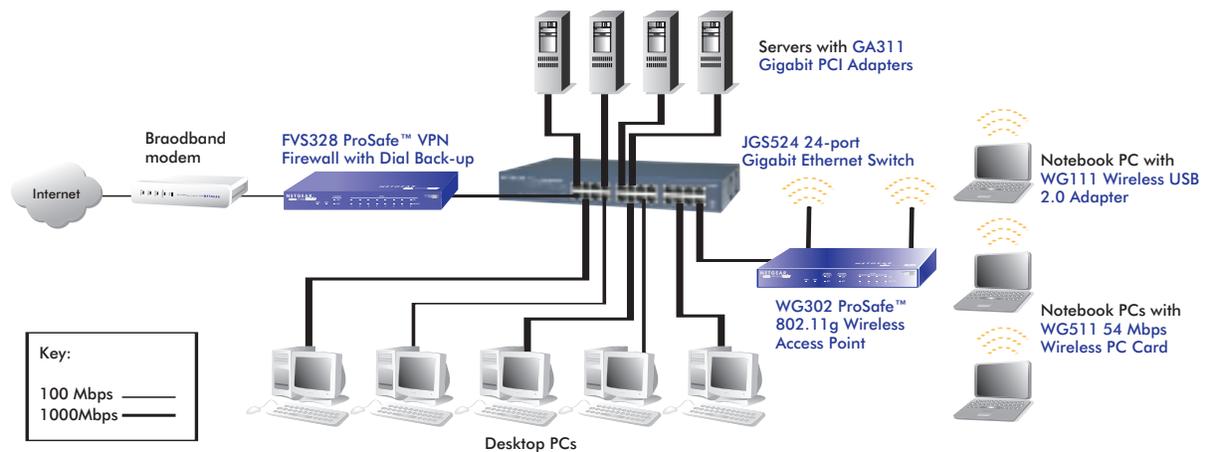
Take Gigabit to the Desktop

NETGEAR's JGS500 Gigabit Switch Series gives your office network a megaboost of speed and capacity that is within your budget. With up to 48 Gbps of bandwidth, these 16- and 24-port switches can blast 2000 Mbps per port while their affordable prices enable you to put them everywhere. Use it to take Gigabit Ethernet directly to the desktop! Standards-based for easy integration of 10, 100, and 1000 Mbps devices, these unmanaged, rack-mountable switch feature 10/100/1000 automatic speed and full/half-duplex sensing plus Auto Uplink™ on every port. Users can take advantage of the their ability to deliver large amounts of multimedia, image, and video information in no time at all. Ideal for workgroups, labs, departments, or growing offices looking for oustanding performance at a low price.

High Capacity   1000 Mbps speeds and a switching capacity of up to 48 Gbps meet the performance needs for even the most bandwidth-hungry applications. The JGS500 series are perfect for graphics, multimedia, and other applications that have to move large files across the network quickly.

Affordable   Aggressive prices enable your workgroup, department or small network to ramp up to Gigabit speeds, even all the way to the desktop.

Flexible   Each port is equipped with automatic speed and duplex sensing, plus Auto Uplink to adjust for straight-through or crossover cables to make the right link. Standards-based design makes it easy to combine 10, 100, and 1000 Mbps devices on your network.

Convenient   Easy to set up and easy to use, these unmanaged switches have per port LED's for effortless network monitoring. Compact enough for desktop but comes with a rack mount kit. Compatible with PC, Macintosh, Linux, and Unix operating systems.

Servers with GA311 Gigabit PCI Adapters

Braodband modem

Internet

FVS328 ProSafe™ VPN Firewall with Dial Back-up

JGS524 24-port Gigabit Ethernet Switch

Notebook PC with WG111 Wireless USB 2.0 Adapter

WG302 ProSafe™ 802.11g Wireless Access Point

Notebook PCs with WG511 54 Mbps Wireless PC Card

Key:

100 Mbps ————
1000Mbps ————

Desktop PCs

NETGEAR®
Everybody's connecting.

Physical Specifications

• **Network Ports**
  - **JGS516:** 16 10/100/1000 Mbps twisted-pair RJ-45 ports
  - **JGS524:** 24 10/100/1000 Mbps twisted-pair RJ-45 ports

• **Performance**
  - **Switching bandwidth:** 48 gigabit per sec
  - **Forward rate (1000 Mbps port):** 1,480,000 packest per sec
  - **Forward rate (100 Mbps port):** 148,000 packets per sec
  - **Forward rate (10 Mbps port):** 14,800 packets per sec
  - **Latency (1000 to 1000 Mbps):** 20 μs max
  - **Packet Buffer Memory:** 2 Mb
  - **MAC address database:** 8,000
  - **Mean Time Between Failure (MTBF):** 87,600 hours

• **Power Consumption**
  - 100~240V; 50-60Hz; plug is localized to country of sale
  - **JGS524:** 40W max
  - **JGS516:** 25W 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

• **Status LEDs**
  - **Unit:** power
  - **Per network port:** Link, Activity, Speed

• **Physical Specifications**
  - **Dimensions (h x w x d):** 43 x 330x 207 mm (1.7 x 13 x 8.2")
  - **Weight:** 2.4 kg (5.3 lbs)

• **Environmental Specifications**
  - **Operating temperature:** 0 to 40° C (32 to 104° F)
  - **Operating humidity:** 90% maximum relative humidity, noncondensing
  - **Storage temperature:** -20 to 70° C (-4 to 158º F)
  - **Storage humidity:** 10 to 95% Relative Humidity

• **Electromagnetic Compliance**
  - CE mark, commercial
  - FCC Part 15 Class A
  - VCCI Class A
  - EN 55022 (CISPR 22), Class A, EN 50082-1,
  - EN 55024
  - C-Tick

• **Safety Agency Approvals**
  - UL listed (UL 1950)/cUL
  - IEC950/EN60950

• **Warranty**
  NETGEAR 2-year warranty

System Requirements
  - UTP Category 5 cables or better
  - Network card for each PC or server (e.g. NETGEAR GA3

Package Contents
  - 16- or 24-port Gigabit Ethernet Switch JGS516 or JGS524
  - Power adapter
  - Installation guide
  - Rack-mount kit
  - Warranty/Support information card

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

NETGEAR®

4500 Great America Parkway
Santa Clara, CA 95054 USA
Phone: 1-888-NETGEAR (638-4327)
E-mail: info@NETGEAR.com
www.NETGEAR.com

D-JGS500-0504

N10947