

Install the Switch

To install your switch on a flat surface, you do not need any special tools. Be sure the switch is positioned with at least 2 inches of space on all sides for ventilation.

To install the switch in a rack, first attach the mounting brackets to the side of the switch. Insert the screws provided in the rack mount kit through each bracket mounting hole in the switch. Tighten the screws with a #1 Phillips screwdriver to secure each bracket. Align the mounting holes in the brackets with the holes in the rack and insert two pan-head screws with nylon washers through each bracket and into the rack. Tighten the screw with a #2 Phillips screwdriver to secure the switch in the rack.

Connect the Devices

To connect devices to the switch:

1. Connect the devices to the 10/100 Mbps ports on the switch, using Category 5 UTP cable and an RJ-45 Plug.

➔ **Note:** Ethernet specifications limit the cable length between your PC or server and the switch to 328 feet (100 meters) in length.

2. Connect one end of the DC power adapter cable to the power outlet on the rear panel of the switch and other end of the power adapter cable to wall outlet.

NETGEAR®

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Statement of Conditions

In the interest of improving internal design, operational function, and/or reliability, NETGEAR reserves the right to make changes to the products to the products described in this document without notice. NETGEAR does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

Certificate of the Manufacturer/Importer

by certified that the NETGEAR Model JFS516/JFS524 Fast Ethernet Switch has been suppressed in accordance with the conditions set out in the BMPT-AmtsblVfg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be subject to certain restrictions. Please refer to the notes in the operating instructions. Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations.

Voluntary Control Council for Interference (VCCI) Statement

この装置は、情報処理装置等電波障害自主規制協議会 (VCCI) の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としています。この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

EN 55 022 Declaration of Conformance

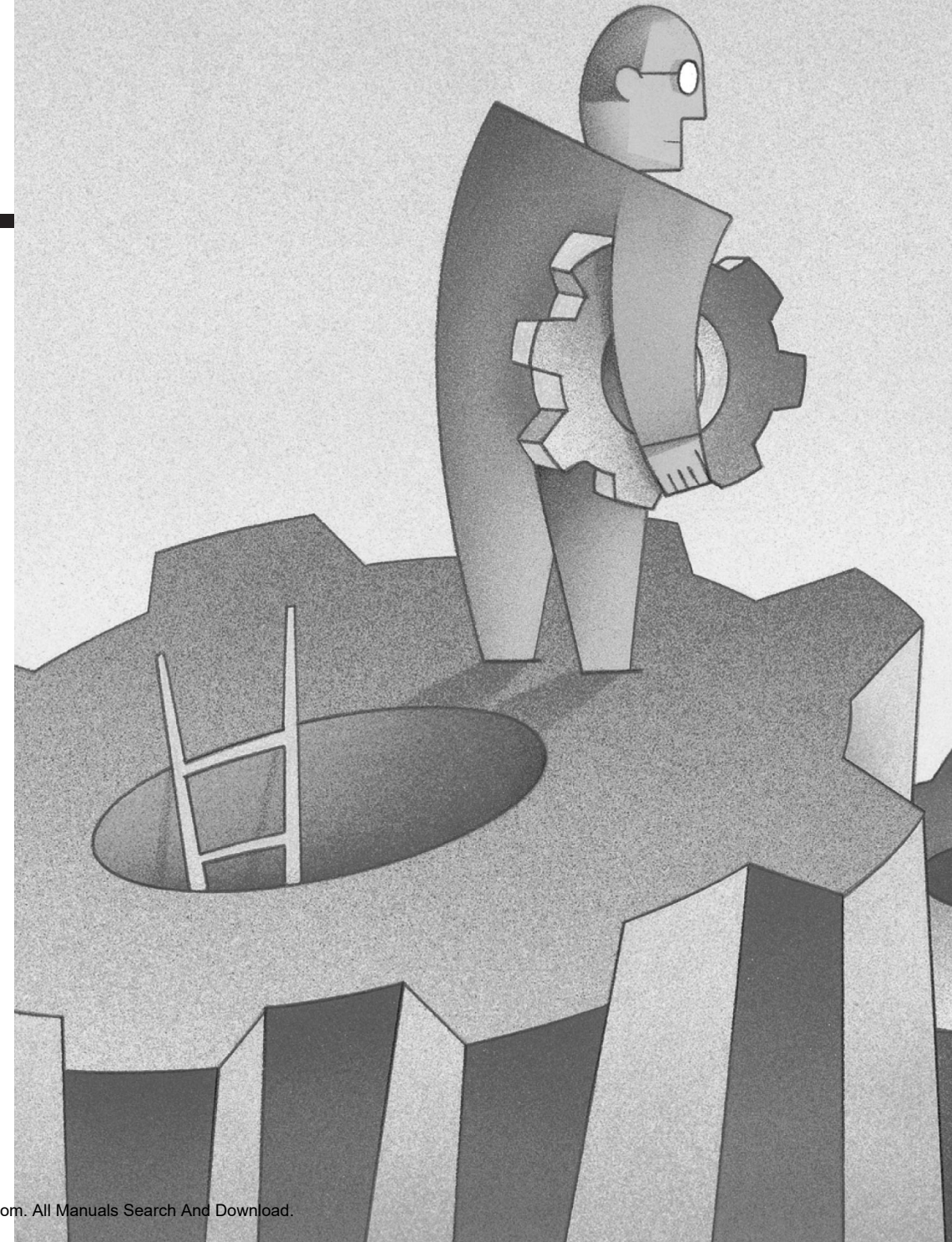
This is to certify that the NETGEAR Model JFS516/JFS524 Fast Ethernet Switch is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN55 022 Class A (CISPR 22).



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MODEL JFS 516
MODEL JFS 524

Fast Ethernet Switch Installation Guide



Start Here

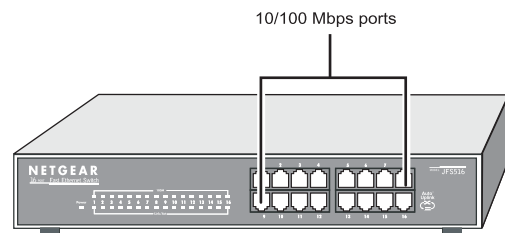
The NETGEAR® Model JFS516 16-Port Fast Ethernet Switch and Model JFS524 24-Port Fast Ethernet Switch provide you with a low-cost, high-performance network solution and are designed to support power workgroups operating at either 10 megabits per second (Mbps) or 100 Mbps.

Ethernet switches provide private, dedicated, 10Mbps (or 100 Mbps) capacity to each connected PC/server or hub/workgroup segment, which is significantly higher than in a shared environment. The higher bandwidth enables the use of applications such as multimedia, imaging, video, or high-performance client-server functions among users who are spread out over the network.

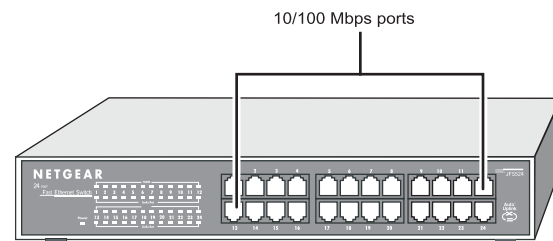
With both the Model JFS516 switch and the Model JFS524 switch, improvement is accomplished very easily, with no change to the desktop (the network interface cards or software and the network wiring). As a result, the performance upgrade and the applications it enables are obtained very quickly and at a low cost.

Product Illustration

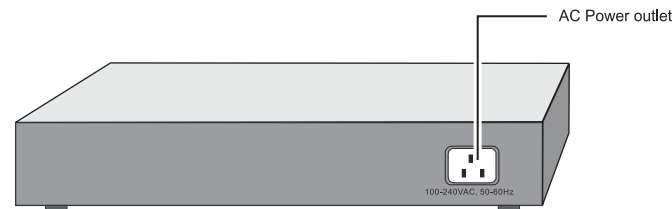
Front Panel of the Model JFS516 Switch



Front Panel of the Model JFS524 Switch



Rear Panel of the Model JFS516/JFS524 Switch



LEDs

The table below describes the activity of the LEDs.

Label	Color	Activity	Description
PWR (Power)	Green	On	Power is supplied to the Switch.
		Off	Power is disconnected.
Link / Activity	Green	Solid	Valid Link on the port.
		Blinking	Packet transmission or receiving on the port.
100M	Green	On	The port is operating in 100 Mbps mode.
		Off	The port is operating in 10 Mbps mode.

Network Port

All ports on the switch are 10/100 Mbps capable ports that auto negotiate for speed, and duplex. Additionally, all ports have Auto Uplink™ to make the right connection.

Auto Uplink™

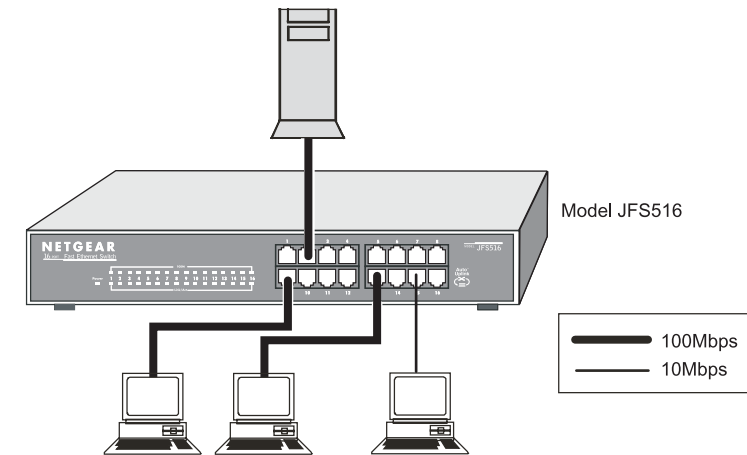
The Auto Uplink technology that NETGEAR has included in this product will automatically sense whether the straight-through cable plugged into any port should have a 'normal' connection, e.g. connecting to a PC; or an 'uplink' connection, e.g. connecting to a router, switch, or hub. That port will then configure itself to the correct configuration. This feature also eliminates the need to worry about crossover cables, as Auto Uplink will accommodate either type of cable to make the right connection.

Note: Auto Uplink will compensate for setting uplink connections, and crossover or straight-through cables. Using Auto Uplink to create multiple paths between any two network devices will disable your network.

Applications

Desktop Switching

Model JFS516/JFS524 switch is used as a desktop switch to build a small network that enables users to have 100 Mbps access to a file server. If a full-duplex adapter card is installed in the server or PC, a 200Mbps connection is possible on the port where the server or PC is connected.



	JFS516NA	JFS524NA
Standards Compatibility	IEEE 802.3i 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3x Flow Control Compatible with major network software, including Windows, NetWare, and Linux	
Date Rate	100 Mbps with 4B/5B encoding and MLT-3 physical interface for 100BASE-TX 10 or 100 Mbps half-duplex/ 20 or 200 Mbps full-duplex	
Network Interface	RJ-45 connector for 10BASE-T or 100BASE-TX Ethernet interface	
Power	10.0w max 100 -240VAC/50-60 Hz universal input	19.5w max 100 -240VAC/50-60 Hz universal input
Dimensions	330x207x43mm / 13x8.15x1.70 inch	
Weight	2kg/4.4 lbs	
Environmental Specifications		
Operating temperature:	0 to 40° C (32 to 104° F)	0 to 40° C (32 to 104° F)
Operating humidity:	90% maximum relative humidity, noncondensing	90% maximum relative humidity, noncondensing
Electromagnetic Compliance	VCCI Class B / FCC Class B / CE / C-tick / MIC	
Safety Agency Approvals	UL , CUL , TUV	
Performance Specifications	Frame filter rate:148,000 for 100 Mbps :14,800 for 10 Mbps	Frame filter rate:148,000 for 100 Mbps :14,800 for 10 Mbps
	Frame forward rate:148,000 for 100 Mbps :14,800 for 10 Mbps	Frame forward rate:148,000 for 100 Mbps :14,800 for 10 Mbps
	Network latency (using 64-byte packets):100Mbps to 100 Mbps: 80 μs max Address database size: 8000 MAC addresses	Network latency (using 64-byte packets):100Mbps to 100 Mbps: 80 μs max Address database size: 4000 MAC addresses
Queue buffer	512KB	768KB

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