

# FAST ETHERNET RACKMOUNT SWITCH USER MANUAL

MODELS 520409  
& 520416



*Shown: Model 520416, 24-Port*



**INTELLINET**<sup>™</sup>  
N E T W O R K   S O L U T I O N S

INT-520409/520416-UM-1009-01



Thank you for purchasing the INTELLINET NETWORK SOLUTIONS™ Fast Ethernet Rackmount Switch, Model 520409 (16-Port) or Model 520416 (24-Port).

This high-performance 10/100 Mbps LAN switch — with auto-sensing and auto-negotiation on every port — provides you with a space-saving, cost-effective design that allows you to connect multiple devices to your local area network while only taking up one slot in your network rack or cabinet.

Easy-to-follow instructions in this user manual help make installation of the switch quick and simple, so you'll also soon be enjoying the benefits of these additional features:

- Supports any combination of 10 Mbps or 100 Mbps network devices
- All RJ45 ports with Auto-MDIX (auto uplink) support
- Supports 802.3x flow control for full duplex mode and collision-based backpressure for half duplex mode
- Non-blocking & non-head-of-line blocking full wire speed forwarding
- Store and forward switching architecture
- Supports up to 8192 MAC address entries
- 156 kBytes buffer memory
- 19" compact rigid metal case with rackmount brackets
- Lifetime Warranty

### **FCC Warning**

This device has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and radiates radio frequency energy and, if not installed and used in accordance with the user manual, may cause interference, which the user will be required to correct at his own expense

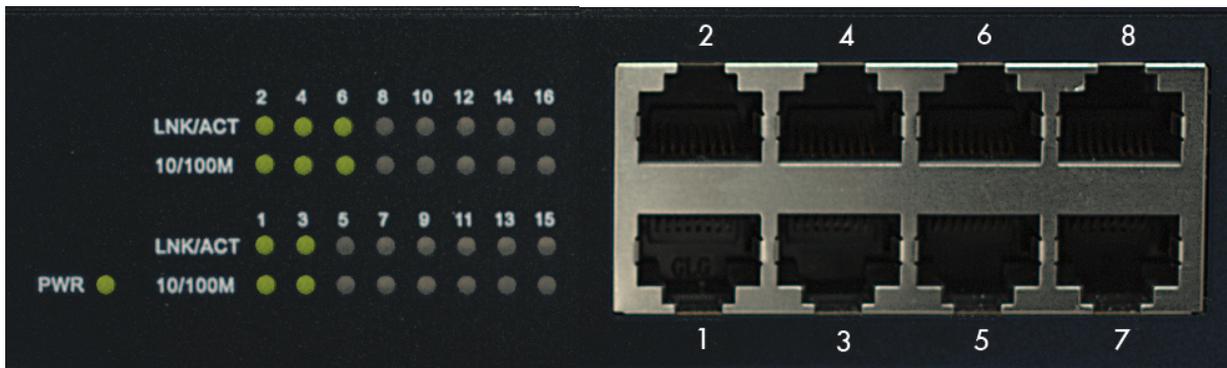
### **CE Warning**

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

# PORTS & INDICATORS

## Ports

The RJ45 connections on the front panel (partially shown in the image below) match workstations, servers or other network devices to 10/100 Mbps switching ports that sense 10/100Mbps speed and automatically negotiate full/half duplex mode, allowing you to connect the switch to 10Base-T and 100Base-TX devices.



## LEDs

The front-panel LEDs will be on (lighted, as shown for some ports in the image above), off or blinking/flashing, indicating function status as follows.

- POWER** On (green): The switch has power and is ready for use.  
Off: The switch has no power.
- LINK / ACT** On (green): The corresponding port is connected to a device.  
Flashing: Data is being transmitted/received.
- 10 / 100 M** On (green): Data is being transmitted/received at 100 Mbps.  
Off: Data is being transmitted/received at 10 Mbps (if the corresponding LINK / ACT light is flashing).

# CONNECTIONS

## Power

The AC power outlet is on the rear panel (as shown at right). Using the included power cord, connect the switch's power outlet to an AC outlet and confirm that the Power LED on the switch's front panel is lit.

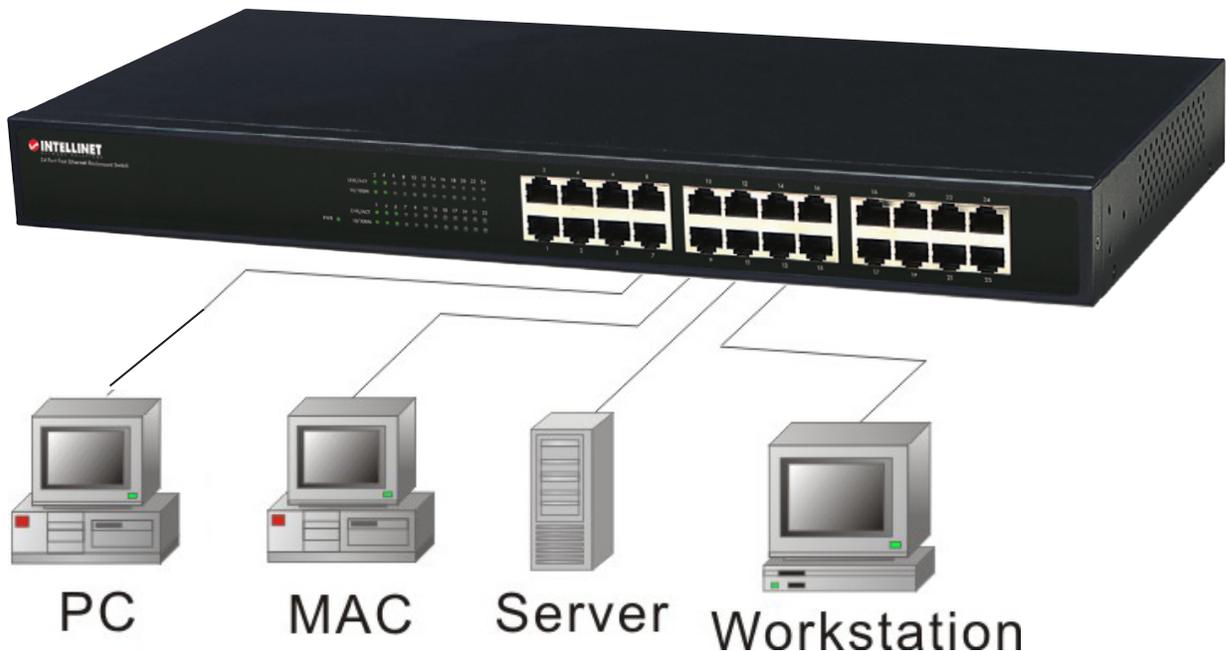


## PCs, Servers, Hubs and Other Switches, and Other Devices

All of the RJ45 ports on the switch support Auto-MDI/MDI-X, allowing you to use straight-through or crossover cable to connect it to workstations, hubs and such.

Connect one end of the network cable to an RJ45 port on the switch and connect the other end to an RJ45 port on the network device. Follow the same simple procedure to connect any number of devices the switch can accommodate (in this case, 16 or 24). **NOTE:** UTP cables need to comply with EIA/TIA 568 specifications and the Cat5 standard for 100 Mbps data transmission. Limit the length of any UTP cable connecting a device to the switch to 100 m (328 ft.)

Once the cable connections are made and the attached network device is powered on, the corresponding LINK/ACT LED on the front panel of the switch should be lit — either on or flashing. (If not, check all network cable and power cord connections and quality conditions.)



# SPECIFICATIONS

## Standards

- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.3x (Flow Control and Backpressure)

## General

- Media support: 10Base-T Cat3, 4, 5 UTP/STP RJ45; 100Base-TX Cat5 UTP/STP RJ45
- Ports: 10/100Base-TX RJ45 (Model 520409: 16; Model 520416: 24)
- Packet filter/forwarding rate: 148,800 pps (100 Mbps); 14,880 pps (10 Mbps)
- Backplane speed: Model 520409: 3.2 Gbps; Model 520416: 4.8 Gbps
- MAC address table: 8192 entries
- Buffer size: 156 kBytes
- Switch architecture: store and forward
- FCC Class A, CE, RoHS

## LEDs

- Power, LINK/ACT, 10/100 M

## Power

- Internal power supply: 100 – 240 V AC, 50/60 Hz
- Power consumption: 8 W
- UL safety approved

## Environmental

- Dimensions: 19", 1U rackmount, 440 (W) x 200 (D) x 44 (H) mm (17.25 x 7.87 x 1.75 in.); 2.5 kg (5.5 lbs.)
- Operating temperature: 0 – 50°C (32 – 122°F)
- Storage temperature: -20 – 70° (-4 – 158°F)
- Operating humidity: 10 – 90%, non-condensing
- Storage humidity: 5 – 90%, non-condensing

## Package Contents

- Fast Ethernet Rackmount Switch
- Rackmount kit for rack installation
- Power cord
- User manual





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