

GIGABIT ETHERNET DESKTOP SWITCH USER MANUAL

MODELS 524117
& 524124



Model shown: 524124



Thank you for purchasing the INTELLINET NETWORK SOLUTIONS™ Gigabit Ethernet Desktop Switch, Model 524117 (5-port) or Model 524124 (8-port).

Providing your network with the high level of performance it needs to handle quick transfer speeds to support disk mirroring, data backup, graphics image file transfers and other bandwidth-intensive applications, this handy device also utilizes broadcast storm control and the store and forward switching method to ensure that your connections remain active even under extremely busy conditions.

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:

- 10/100/1000 Mbps auto-sensing Auto MDI-X ports automatically detect optimal network speeds
- High performance, half and full duplex, with zero packet loss
- Full flow control support provides optimum performance
- Auto-learning of network configuration
- Supports up to 4,096 MAC address entries
- Supports jumbo frames up to 4.6 kBytes
- 156 kBytes buffer memory
- Lifetime Warranty

FCC Warning

This device has been tested and found to comply with limits for a Class B digital device, pursuant to Part 2 and 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 and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, may cause interference, in which case the user will be required to correct the interference at his own expense.

CE Warning

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

FRONT PANEL



The top-panel LED indicators — POWER, Link/Act — allow for more convenient monitoring and troubleshooting of the switch. The table below shows each LED function.

LED	Status	Operation
POWER	Steady green	Power on
	Off	Check AC connection; turn the power on
LINK/ACT	Steady green	Valid port connection
	Blinking green	Valid port connection; data being transmitted/received
	Off	No link established

REAR PANEL



All ports on the Gigabit Ethernet Desktop Switch support Auto-MDI/MDI-X functionality, so crossover cables and uplink ports are not needed for connections to PCs, routers, hubs, additional switches or other devices. Cat5/5e UTP/STP cables provide optimal performance; if a top-panel LED corresponding to any of the ports in use doesn't indicate a link or activity, check the connected device for proper setup and operation.

SIDE PANEL



Model 524124

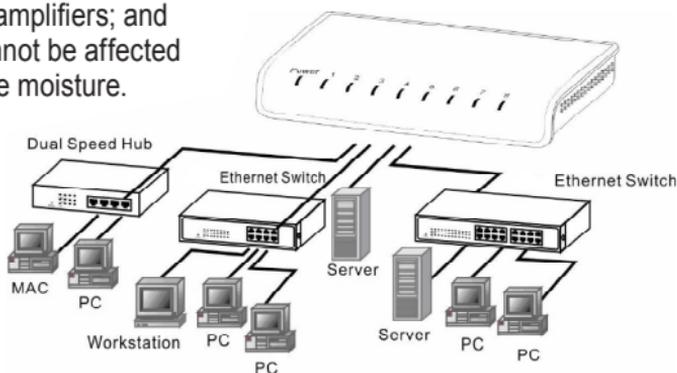
Plug the female end of the power adapter firmly into the receptacle on the side panel and the other end into an electrical outlet. Confirm that the power LED is lit for a normal power status. **NOTE:** To ensure proper operation, use only the power adapter included with the switch.

INSTALLATION

Prior to use, it is recommended that the device be placed/positioned:

- on a level surface that can support the weight of the switch (and any other items that need to be considered);
- with a minimum of 25 mm of clearance on the top and sides for adequate ventilation;
- away from sources of electrical noise, such as radios, transmitters and broadband amplifiers; and
- where it cannot be affected by excessive moisture.

Right: Sample configuration representing the versatility of the Gigabit Ethernet Desktop Switch.



SPECIFICATIONS

Standards

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

General

- ANSI/IEEE 802.3 NWay auto-negotiation
- Non-blocking, store and forward switching architecture
- Backpressure flow control for half duplex mode on 10/100 Mbps ports
- Connectors: 5 or 8 10/100/1000 Mbps RJ-45 ports
- Switch architecture: store and forward switch technology
- Network cables:
 - 10Base-T: Cat3, 4, 5 UTP/STP
 - 100Base-TX: Cat5 UTP/STP
 - 1000Base-T: Cat5e UTP/STP
- Certifications: FCC Class B, CE Mark, RoHS

Performance

- Filter/forward rate
 - 10BaseT: 14,880 pps (packets per second)
 - 100Base-TX: 148,800 pps (packets per second)
 - 1000Base-T: 1,480,000 pps (packets per second)
- MAC address table: 4,096 entries
- Buffer size: 156 kBytes
- Jumbo frame support: 4.6 kB

LEDs

- Power
- LINK/ACT for each 10/100/1000 Mbps port

Power

- DC input: 5 V, 2 A (Model 524117); 5 V, 2.5 A (Model 524124)
- Power consumption: 10 Watts (maximum)

Environmental

- Plastic housing (ABS), desktop size
- Dimensions: 140 (W) x 105 (L) x 25 (H) mm (5.5 x 4.1 x 1.0 in.)
- Weight: 0.22 kg (0.5 lbs.)
- Operating temperature: 0 – 40°C (32 – 104°F)
- Operating humidity: 10 – 90% RH, non-condensing
- Storage temperature: -20 – 90°C (-4 – 194°F)

Package Contents

- Gigabit Ethernet Desktop Switch
- External power adapter
- User manual



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