

# 16-Port 10/100Mbps Fast Ethernet Switch



## Power-saving, High-performance Ethernet Networking

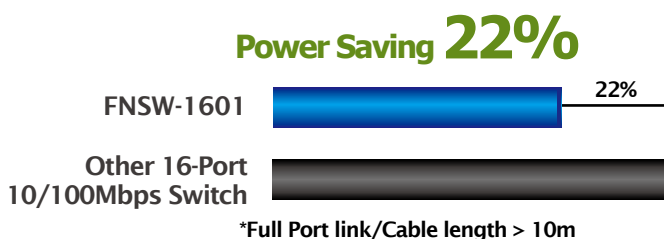
PLANET Green Networking Switch- FNSW-1601 is an ideal solution in line with the energy-saving trend worldwide. The FNSW-1601 is a 16-port 10/100Base-TX Fast Ethernet Switch upgraded from earlier version and brings both benefits of energy saving and high performance.

## Energy Saving

The FNSW-1601 incorporates advanced Green Networking technology:

- Intelligent scales power based on cable length

The intelligent scales power is an intelligent algorithm that actively determines the appropriate power level based on cable length. The FNSW-1601 would automatically detect the Ethernet cable length and adjust power usage accordingly. The connected device can substantially reduce overall power consumption, which makes a significant contribution to energy saving. The FNSW-1601 uses new engine that provides power saving up to 22% less energy but maintains high performance efficiently.



**Save  
14,069 Watts  
yearly**

## High Performance

The high performance throughput (filtering / forwarding rate: 14,880 packets per second in 10Mbps, 148,800pps in 100Mbps) helps the FNSW-1601 boost bandwidth, eliminates unnecessary traffic, and relieves congestion on your critical server path. The FNSW-1601 is the ideal choice to alleviate bottlenecks in client / server and peer-to-peer environments in a cost effective way.

## Plug and Play

The FNSW-1601 provides users with high speed network connections. With its auto-negotiation capability, all the RJ-45/STP ports of the FNSW-1601 can be configured to speeds of 10/20Mbps or 100/200Mbps automatically. What's more, the MDI/ MDIX auto-detection is for easy, plug and play connection, regardless of the cabling type, straight-through or crossover.

## Physical Port

- 16 10/100Mbps Fast Ethernet ports
- Supports auto MDI/MDI-X function

## Layer 2 Features

- Complies with IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX Ethernet standards
- Supports powerful Green Ethernet for power saving
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Handles up to 1522 bytes packet size
- Complies with IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation
- Integrated address look-up engine, supporting 8K absolute MAC addresses
- Automatic address learning and address aging
- Supports CSMA/CD protocol

## Hardware Features

- 100~240V AC, 50~60Hz, 0.3A Universal Power Input
- FCC, CE Class A compliant

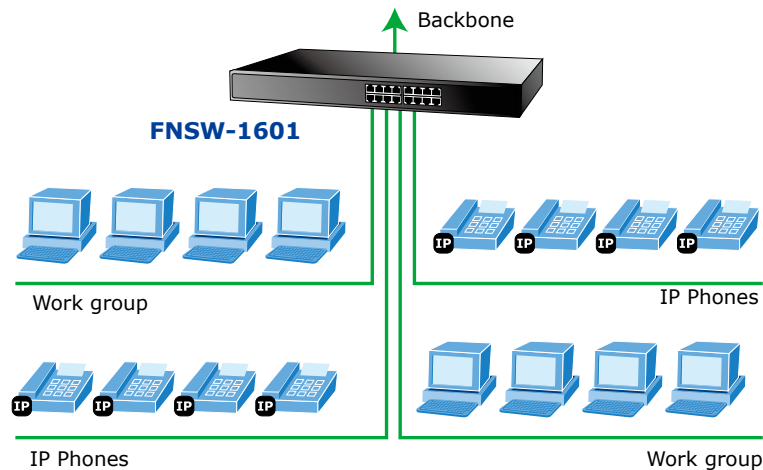
## Application

### Backbone Switch

With up to 3.2Gbps switching fabric, the FNSW-1601 can provide high bandwidth connectivity to Fast Ethernet network backbone or as the backbone of your workgroup.

### Department Switch

Uplink directly by any straight or crossover cable to the backbone switch, the FNSW-1601 provides the connectivity to back plane yet segment the network traffic of the department to your backbone.



## Specifications

Product	FNSW-1601
<b>Hardware Specifications</b>	
Hardware Version	V8
100Mbps Ports	16 x 10/100Base-TX RJ45 ports, supports Auto-MDI/MDIX
Throughput (packet per second)	2.38Mpps
Switch Fabric	3.2Gbps
Weight	1.6kg
Power Consumption / Dissipation	1.3 watts / 4.4 BTU
Power Requirements	100~240V AC, 50/60Hz, 0.3A
Dimensions (W x D x H)	440 x 180 x 44 mm, 1U height
Switch Processing Scheme	Store-and-Forward
Address Table	8K entries
Power Green Ethernet	10m ~ 50m: Saving up to 22%
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
<b>Environment</b>	
Temperature	Operating: 0~50 degrees C Storage: -10~70 degrees C
Humidity	Operating: 5~90% Storage: 5~90% (non-condensing)
<b>Standards Conformance</b>	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3x (Full-duplex Flow Control) IEEE 802.1p (Class of Service)

## Ordering Information

FNSW-1601	16-Port 10/100Mbps Fast Ethernet Switch
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