16-Port 10/100Mbps Fast Ethernet Switch



Power-saving, High-performance Ethernet Networking

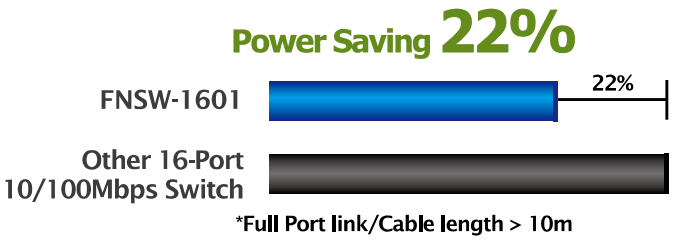
PLANET Green Networking Switch- FNSW-1601 is an ideal solution in line with the energy-saving trend worldwide. The FNSW-1601 is a 16-port 10/100Base-TX Fast Ethernet Switch upgraded from earlier version and brings both benefits of energy saving and high performance.

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

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

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.

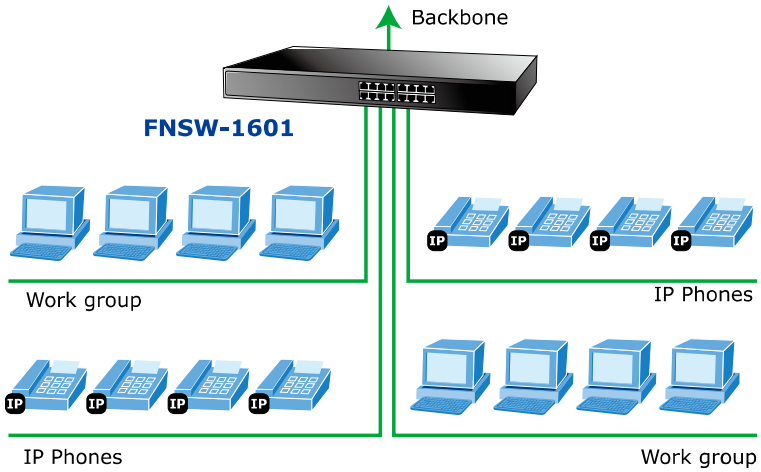
Application

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
Hardware Specifications	
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
Environment	
Temperature	Operating: 0~50 degrees C Storage: -10~70 degrees C
Humidity	Operating: 5~90% Storage: 5~90% (non-condensing)
Standards Conformance	
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

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)

Tel: 886-2-2219-9518 Fax: 886-2-2219-9528

Email: sales@planet.com.tw www.planet.com.tw

C-FNSW-1601(V8)

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