24-Port 10/100Mbps PoE Web Smart Ethernet Switch

Affordable Edge Network Connection Solution
Planet has released the FNSW-2400PS, a Layer 2 Web Smart Switch that deploys PoE. The unit is a cost-effictive network management solution with a PoE budget of 125 Watts. The FNSW-2400PS is equipped with 24 fast ethernet ports and provides a compact, affordable, and reliable power solution for small to medium-sized enterprises.

IEEE 802.3af Power over Ethernet Support
The FNSW-2400PS complies with the IEEE 802.3af standard and is able to deliver power to 24 PoE compliant devices at distances of up to 100 meters through the 4-pair Cat 5/5e UTP wire. The device is eay to install and safely manage the power of network devices such as wireless access points (AP), Voice over IP (VoIP) phones and IP Surveillance cameras. With a more efficient switching power supply, the FNSW-2400PS out preforms four linear power adapters in the long run and brings customers the key benefit of saving energy.

Easy Installation
The Power over Ethernet enables the Ethernet wire to carry both data and power. The dual function removes the need for additional power supply cables and extension cords. This makes the installing the FNSW-2400PS easier removing the need to locate hard to reach or inaccessible electrical outlets.

User-Friendly Web-Based Management
The FNSW-2400PS is equipped with remote Web interface for efficient network management. It can be programmed for advanced switch management functions such as port configuration, VLAN, Rapid Spanning Tree Protocol (RSTP), IGMP Snooping, port trunk, QoS, bandwidth control, and MAC address / TCP & UDP filter.
The FNSW-2400PS provides Port-Based / IEEE 802.1Q / MTU VLAN (port based / IEEE 802.1Q VLAN including overlapping). The FNSW-2400PS allows a maximum of up to 24 for port based VLAN groups or up to 32 for IEEE 802.1Q VLAN groups. In addition, the MTU VLAN divides port 1 to port 24 as a separate LAN group. Via supporting port trunking, the FNSW-2400PS allows the operation of a high-speed trunk by combining multiple ports. The FNSW-2400PS also provides two groups of up to 4-Port 10/ 100Base-TX trunk support with up to 800Mbps bandwidth per trunk group.

APPLICATIONS

Department / Workgroup PoE Switch
With 24 10/100Mbps ports, the FNSW-2400PS provides a cost-effective and high-performance solution for power users. With its 4.8 GBPS switching capacity and non-blocking switch fabric, the device can easily provide a local, high bandwidth Fast Ethernet network for your departmental backbone. Providing up to 125Watts of PoE budget, in-line power interface, the FNSW-2400PS helps administrators build a powerful centrally-controlled IP phone system, IP Camera system, AP group for the enterprise. For example, 24 cameras or wireless APs can be installed around a company for surveillance or wireless roaming demands. The FNSW-2400PS makes the installation of cameras and Wireless LAN AP more efficient since it does not utilize power sockets.

Data Sheet
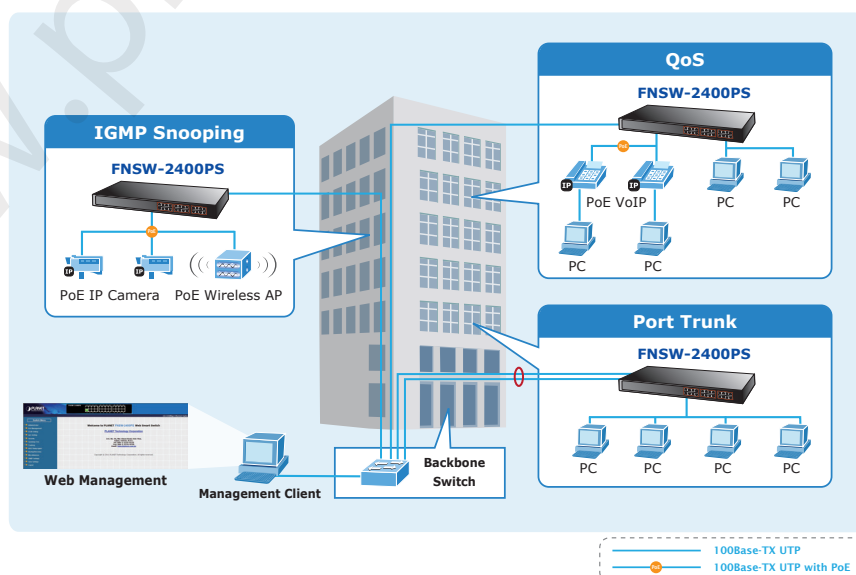
KEY FEATURES

PHYSICAL PORT

- 24-Port 10/100Mbps Fast Ethernet ports with PoE Injector

- Reset button for system management

POWER OVER ETHERNET

- Complies with IEEE 802.3af Power over Ethernet Mid-Span PSE

- Up to 24 IEEE 802.3af devices powered

- Supports PoE Power up to 15.4 Watts for each 802.3af PoE port

- Auto detect powered device (PD)

- Circuit protection prevents power interference between ports

- Remote power feeding up to 100m

LAYER 2 FEATURES

- Auto-MDI / MDI-X detection on each RJ-45 port

- Prevents packet loss with back pressure (Half-Duplex) and IEEE 802.3x PAUSE Frame Flow control (Full-Duplex)

- Supports VLAN:

  - IEEE 802.1Q Tag-Based VLAN

  - Port-Based VLAN

  - MTU VLAN (Multi-Tenant Unit VLAN)

- Supports Link Aggregation

  - up to 2 trunk groups

  - up to 4 Fast Ethernet ports per trunk group

  - IEEE 802.3ad LACP (Link Aggregation Control Protocol)

- Supports Spanning Tree Protocol

  - STP, IEEE 802.1D (Classic Spanning Tree Protocol)

  - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)

  - Loopback Detection

- Port Mirroring to monitor incoming or outgoing traffic on a particular port

QUALITY OF SERVICE

- 2 priority queues on all switch ports

- Traffic classification:

  - Port-Based priority

  - IEEE 802.1p based priority

  - IP TOS / DSCP based priority

  - TCP / UDP Port-Based QoS

- Strict priority and Weighted Round Robin (WRR) CoS policies

- In/Out rate limit control on each port

- Broadcast Storm Control support

MULTICAST

- Supports IGMP Snooping v1 and v2

SECURITY

- MAC address filter

- TCP & UDP filter on each port

- Management idle time security

MANAGEMENT

- Remote Web interface for Switch management and setup

- Supports SNMP v1

- Supports DHCP Option 82 and DHCP Relay

- Firmware upgrade through Web interface

- Configuration upload / download through Web interface

- Reset button for system reboot or reset to factory default

SPECIFICATION

Product	24-Port 10/100Mbps PoE Web Smart Ethernet Switch
Model	FNSW-2400PS
Hardware Specification	
Ports	24 10/100Base-TX RJ-45 Auto-MDI/MDI-X interfaces
Switch Processing Scheme	Store-and-Forward
Throughput (packet per second)	3.57Mpps@64Bytes
Switch Fabric	4.8Gbps
Address Table	8K entries
Share Data Buffer	1.75Mb embedded memory for packet buffers
Flow Control	Back pressure for Half Duplex, IEEE 802.3x Pause Frame for Full Duplex
Dimension (W x D x H)	445 x 207 x 45 mm (1U height)
Weight	2.55kg
Power Requirement	100~240V AC, 50-60 Hz, 2A
Power Consumption / Dissipation	Max.135 Watts / 460 BTU
Smart Function	
System Configuration	Web interface, SNMP v1
Port Configuration	Port Speed Duplex mode selection Port Disable / Enable
Bandwidth Control	Yes
Broadcast Storm Control	Yes
Port Statistics	Display each port's detail Ethernet traffic counter information
VLAN	24 port-based VLAN groups / 32 IEEE 802.1Q VLAN groups / MTU VLAN
Spanning Tree Protocol	STP, IEEE 802.1D (Spanning Tree Protocol) RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
Port Trunking	2 groups of 4-Port 10/ 100Base-TX trunk support, up to 800Mbps bandwidth per trunk group
Port Mirroring	Port mirroring allows monitoring of the traffic across any port in real time
QoS	Allows to assign low / high priority on each port First-In-First-Out, All-High-before-Low, Weight-Round-Robin QoS policy
MAC Address / TCP & UDP Filter	Yes
IGMP Snooping v1 / v2	Allows to Disable or Enable
Power over Ethernet	
PoE Standard	IEEE 802.3af Power over Ethernet / PSE
PoE Power Supply Type	Mid-Span
PoE Power output	Per Port 48V DC, 350mA . Max. 15.4Watts
Power Pin Assignment	4/5(-), 7/8(+)
PoE Power Budget	125Watts
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3af Power over Ethernet (15.4Watts) IEEE 802.3x Full-Duplex flow control IEEE 802.1Q VLAN IEEE 802.1p QoS IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol
Environment	
Temperature	Operating: 0~50 Degree C Storage: -10~70 Degree C
Humidity Operating	5~95%, Storage: 5~95% (Non-condensing)

ORDERING INFORMATION

FNSW-2400PS	24-Port 10/100Mbps PoE Web Smart Ethernet Switch

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