16-Port 10/100Mbps PoE Fast Ethernet Switch

KEY FEATURES

RJ-45 INTERFACE

- 16-Port 10/100Mbps Fast Ethernet ports
- All ports support 48V DC power to PoE Powered Device

POWER OVER ETHERNET

- Complies with IEEE 802.3af Power over Ethernet Mid-Span PSE
- Up to 16 IEEE 802.3af devices powered
- PoE Power Budget 125 Watts
- Supports PoE Power up to 15.4 Watts for each PoE port
- Auto detect powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

SWITCHING

- Hardware based 10/100Mbps Auto-Negotiation and Auto MDI / MDI-X
- Flow control for Full Duplex operation and back pressure for Half Duplex operation
- Integrates address look-up engine, supporting 8K absolute MAC addresses
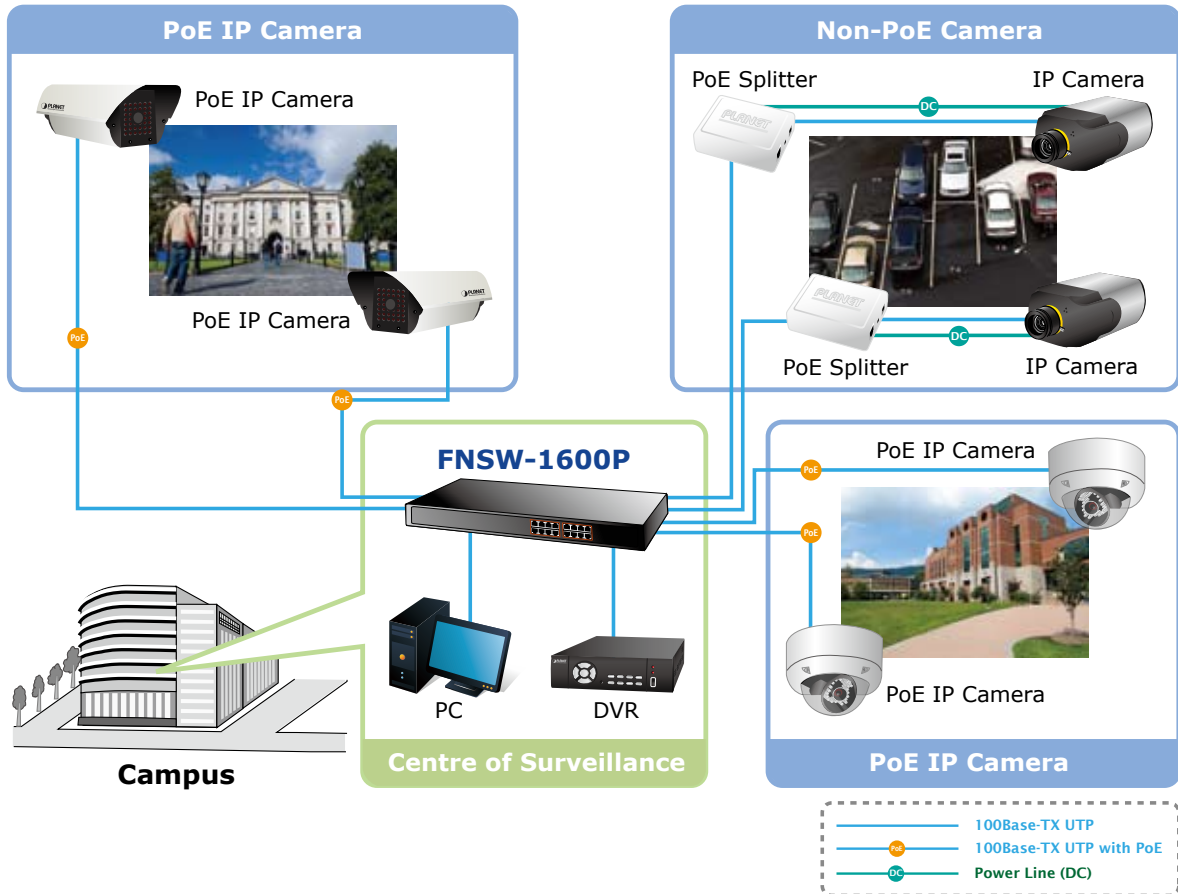- Automatic address learning and address aging

HARDWARE

- 19-inch size, 1U height
- LED indicators for PoE ready and PoE activity
- 2 silent fans to support stable and efficient power performance

Centralized Power Distribution for Ethernet Networking

To fulfill the demand of sufficient PoE power for network applications with 10/100Mbps wire speed transmission, PLANET introduces a new member in the 802.3af PoE Fast Ethernet Switch family – FNSW-1600P, the 16-Port 10/100Mbps 802.3af Power over Ethernet Switch with 125 Watts PoE budget. The 16 Fast Ethernet ports integrated with 802.3af PoE injector function are able to drive at least 9 x IEEE 802.3af 12.95Watts Class 3 compliant powered devices. The FNSW-1600P also provides a simple, cost-effective, and non-blocking wire-speed performance with 19-inch metal shape for deployment in compact housing, SOHO office or department network application.

Great Ethernet Traffic Transmission Ability

The FNSW-1600P features high performance switch architecture capable of providing the non-blocking 3.2Gbps switch fabric and wire-speed throughput as high as 2.38Mpps, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands. Besides, the 802.3x Full-Duplex flow control function of the FNSW-1600P enables PD devices and servers directly connect to the Switch for wire-speed packet transfer performance without risk of packet loss.

Easy and Cost-effective Network Deployment

With data and power over Ethernet from one unit, the FNSW-1600P shall reduce the need of cables and dedicated electrical outlets on the wall, ceiling or any unreachable place. It helps to lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. With 125 Watts Power Budget, the FNSW-1600P is ideal for small business and workgroups deploying the PoE for the wireless access points, IP surveillance cameras and IP phones in any places easily and efficiently.

Data Sheet

APPLICATIONS

Department / Workgroup PoE Network

Providing 16-Port 802.3af PoE in-line power interfaces, the FNSW-1600P can easily build a power centrally-controlled IP phone system, IP camera system and Wireless AP group for the enterprise. IP Cameras can be installed around the corner in the company or campus for surveillance demands; or Wireless AP be deployed to build a wireless roaming environment. Without the power-socket limitation, the Switch makes the installation of cameras and Wireless AP more easily and efficiently.

SPECIFICATION

Product	16-Port 10/100Mbps PoE Fast Ethernet Switch	
Model	FNSW-1600P	
Hardware Specification		
Network Connector	16-Port RJ-45 for 10/100Base-TX	
PoE Inject Port	16	
LED Display	System: Power (Green)	
	Per port : PoE (Orange)	
	LNK/ACT (Green)	
Switch Architecture	Store and Forward switch architecture	
MAC Address	8K MAC address table with Auto learning function	
Switch Fabric	3.2Gbps	
Switch Throughput	2.38Mpps@64Bytes	
Power Requirement	AC 100~240V, 50/60Hz, 2A max.	
Power Consumption	Max.135 Watts / 460 BTU	
Dimension (W x D x H)	445 x 207 x 45 mm (1U height)	
Weight	2.33kg	
Power over Ethernet		
PoE Standard	IEEE 802.3af Power over Ethernet	
PoE Power Supply Type	Mid-Span, PSE	
PoE Power Output	Per Port 48V DC, 350mA. Max. 15.4 Watts	
Power Pin Assignment	4/5(-), 7/8(+)	
PoE Power Budget	125 Watts	
Standard Conformance		
EMI Safety	FCC Class A, CE	
Standard Compliance	IEEE 802.3	Ethernet
	IEEE 802.3u	Fast Ethernet
	IEEE 802.3x	Flow Control
	IEEE 802.3af	Power over Ethernet
Environment		
Operating environment	0 ~ 50 Degree C	
Storage environment	-40 ~ 70 Degree C	
Operating Humidity	5 ~ 95%, relative humidity, non-condensing	
Storage Humidity	5 ~ 95%, relative humidity, non-condensing	

ORDERING INFORMATION

FNSW-1600P	16-Port 10/100Mbps PoE Fast Ethernet Switch

RELATED POE PRODUCTS

ICA-H312	H.264 25-meter IR Internet Camera
ICA-H610	H.264 Indoor CCD Internet Camera
ICA-HM100	Wired H.264 Mega-Pixel IP Camera
ICA-HM120	H.264 Mega-Pixel Box IP Camera
ICA-HM126R	Full HD Real-Time H.264 Box IP Camera
ICA-HM131R	H.264 Real-Time Fixed Dome IP Camera
ICA-HM135	H.264 Mega-Pixel 20M IR Vandal Proof Dome IP Camera
POE-151S	IEEE 802.3af Power Over Ethernet Splitter
POE-E101	IEEE 802.3af Power over Ethernet Extender
VIP-156PE	802.3af PoE SIP Analog Telephone Adapter
VIP-254PT	SIP PoE IP Phone
VIP-255PT	Multi–Language PoE IP Phone
VIP-360PT	Enterprise PoE IP Phone
WNAP-1120PE	802.11n Wireless Access Point with PoE

2015-06

3