SNAPPY

16-Port Full Gigabit Managed Industrial PoE Switch

Model : SNY-UFB88197FEP-3E

OVERVIEW

The SNY-UFB88197FEP-3E is a full gigabit L2+ managed industrial PoE fiber switch independently developed by Snappy. it has 16*10/100/1000Base-T RJ45 ports and 8*100/1000Base-X SFP fiber slot ports. Port 1-16 can support IEEE802.3af/at POE standard. Single+port POE power up to 30W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, web camera, VoIP phone, industrial sensor through network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transporta-tion, rail transit, electric power, mining,metallurgy and green energy. Industrial scenes such as construc-tion set up a cost-effective and stable communication network.

The SNY-UFB88197FEP-3E has L2+ full network management function, supports IPV4/IPV6 manage-ment, supports static route full line rate forwarding, supports complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multi-ple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms) to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

FEATURE

Gigabit access , SFP port uplink

- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.
- Supports Ethernet port and SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

Intelligent PoE power supply

- IEEE 802.3af/at PoE standard, without damaging non-PoE devices.
- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- 16*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

Strong business processing capability

- ERPS/STP/RSTP/MSTP.
- Static and dynamic aggregation.
- IGMP V1/V2 and IGMP Snooping.
- IEEE802.1Q VLAN, flexible VLAN division,Voice VLAN and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.

Security

- 802.1X authentication.
- Port isolation,Storm control.
- IP-MAC-VLAN-Port binding.

Stable and reliable

- CCC,CE, FCC, RoHS.
- Low power consumption, no fan, aluminum shell.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, PoE.
- The DIN rail industrial switch series products do not have a power supply by default and need to be purchased. Users can purchase a power supply independently developed by SNY.

Easy operation and maintenance management

- HTTPS, SSLV3, and SSHV1/V2.
- RMON, system log, LLDP, and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.
- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

Model	SNY-UFB88197FEP-3E
Interface Characteristics	
Fixed Port	Power-off alarm switch (FAULT) 1*RS232 console port(115200,N,8,1) 8*100/1000Base-X uplink SFP slot ports (Data) 16*10/100/1000Base-T PoE ports (Data/Power) 2 set of V+, V- redundant DC power interface (6 Pin Phoenix terminal)
Ethernet Port	Port 1-16 support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
Optical Fiber Port	Gigabit SFP optical fiber interface, default no include optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
SFP Port Expansion	Turbo overclocking 2.5G optical module and ring
Optical Cable/ Distance	Multi mode: 850nm / 0-500M, Single-mode: 1310nm / 0-40KM, 1550nm / 0-120KM.
Chip Parameter	
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	256Gbps
Forwarding Rate@64byte	35.71Mpps
MAC	8K
Buffer Memory	8M
Jumbo Frame	9.6K

LED Indicator	Power: PWR (Green), System: SYS (Green), Network: Link (Yellow), Fiber Port : L/A (Green), PoE: PoE (Green)
Reset Switch	Yes. press and hold for 10 seconds and then release to restore factory settings

PoE & Power

PoE Port	Port 1 to 16
PoE Management	Total power limit of PoE power supply PoE output power allocation, PoE on/off & af/at PoE working status, Delay start of power supply PoE output priority configuration,Scheduling of PoE operation and time
Power Supply Pin	Default: 1/2 (+) 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Power Consumption	Standby<15W, Full load af<240W, at<400W
Working Voltage	DC48-57V, 6 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	48V/240W industrial power supply

Physical Parameter

Operation TEMP / Humidity	-40~+80°C;5%~95% RH Non condensing
Storage TEMP / Humidity	-40~+85°;5%~95% RH Non condensing
Dimension (L*W*H)	166*149*89mm
Net /Gross Weight	<2.2kg / <2.8kg
Installation	Desktop, DIN rail