



Gigabit uplink 18-port AI PoE switch

VT-16POES

Overview

The VT-16POES is an unmanaged AI PoE switch. It has 16*10/100M PoE ports and 2*10/100/1000M uplink RJ45 ports and 1*1000Base-X SFP fiber port (combo port). Port 1-16 can support IEEE802.3af/at standard PoE power supply, and single port PoE power reaches 30W. The maximum PoE output power is 250W. Port 1-16 can support the PoE watchdog function. When the port communication failure corresponds to the port POE will automatically restart, self-recover network communication, reducing manual intervention and maintenance. 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-cam, VoIP, video access control, etc. through the network cable, to meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, banks, hospitals, factories, small and medium-sized enterprises form a cost-effective network.

Unmanaged model, plug and play, no configuration, easy to use.

High Performance

- AI self-healing mode
- PoE watchdog
- Automatically repair
- long distance transmission
- VLAN isolation function
- IEEE 802.3x flow control
- Store and forward
- Jumbo Frame support

Certification

- Lightning protection: 4KV 8/20us
- Protection level: IP30
- CCC ; CE mark
- CE/LVD EN60950
- FCC Part 15 Class B
- RoHS

Easy to use

- Plug and Play design
- No configuration
- Easy to maintain
- LED indicator



FCC



CE



ROHS

Gigabit uplink 18-port AI PoE switch**VT-16POES****10/100Mbps access, gigabit TP/SFP uplink**

- 16*10/100M PoE ports and 2*10/100/1000M RJ45 ports and 1*1000M combo port, which is convenient for users to flexibly network to meet various networking needs
- Support non-blocking wire-speed forwarding
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure

Smart PoE power supply function

- 16*10/100Base-TX RJ45 ports support POE, meeting the needs of security monitoring,teleconferencing system, wireless coverage, and other scenarios.
- IEEE 802.3af/at PoE standard, without damaging non-PoE devices
- 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.
- 16*10/100Base-TX PoE ports can support the watchdog function to automatically detect the data communication status in real-time. When the port communication fails, the corresponding port POE will automatically restart to repair the network communication, eliminating the need for manual maintenance.

Innovative function

- long-distance transmission and VLAN mode (E): When the switch status is "ON" (default OFF), Port 1-16 physical VLAN isolation is enabled, suppressing broadcast storms and improving network performance, and port 9-16 rate is reduced to 10M. The use of the existing twisted pair can break through the transmission limit of 100m of twisted pairs, and the transmission distance can reach 250m. On the other hand, it can solve the problem of poor transmission caused by line aging.
- AI self-healing mode (D): When the switch status is "ON" (default OFF), port 1-16 can support the watchdog function and automatically detects the data communication status in real-time.
- Real-time power and power priority mode (P): When the switch status is "ON" (default OFF), the POE real-time power grading indicator lights up, quickly understanding the power consumption of the host, and enabling the port priority function to ensure the port 1 power output.

Stable and reliable

- CCC,CE, FCC, RoHS.
- Plug and play, no configuration, simple and convenient.
- Support desktop and 1U/19 inch cabinet installation.
- Low power consumption, galvanized steel casing, The fan active cooling
- Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, link,L/A, and PoE.

Specifications

Model	VT-16POES
Fixed Port	16*10/100Base-TX PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 1*1000Base-X SFP fiber port (Data) (combo port)
Ethernet Port	Port 1-16 support 10/100Base-TX, port 17-18 support 10/100/1000Base-T(X) automatic detection, full/half Duplex MDI/MDI-X adaptive
Twisted Pair Transmission	10BASE-T:Cat5 UTP(≤250 meter) 100BASE-TX:Cat5 or later UTP(≤100 meter) 100BASE-T:Cat5e or later UTP(≤100 meter)
SFP Slot Port	Gigabit SFP optical fiber interface, default not matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/Distance	Multi mode: 850nm /0 ~ 500M, single mode: 1310nm /0 ~ 40KM, 1550nm /0 ~ 120KM.
Functional Switch	(E, D, P) Three levels, the default state is "OFF", the function description is as follows after "ON" is turned on
	E is the "ON" state, port 9-16/17-24 can support long-distance transmission 10M/250m and VLAN transmission mode; when "OFF", 100 meters transmission.
	D is the "ON" state, port 1-16/1-24 can support AI self-healing mode; when "OFF", no communication self-healing function.
	P is the "ON" state, POE outputs total power and priority indication mode; when "OFF", no power indication function.

Chip Parameter	
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)
Forwarding Rate@64byte	5.36Mpps
Switching Capacity	14.8Gbps(non-blocking)
MAC	16K
Buffer Memory	4M
Jumbo Frame	10K
LED Indicator	Power: PWR (green), Network : link (yellow), PoE :PoE (green) .rate:1000M (green)
PoE & Power	
PoE Port	Port 1 to 16 IEEE802.3af/at @ POE
Power Supply Pin	Defaul 1/2 (+), 3/6 (-), Optional 4/5(+), 7/8(-)
Max Power Per Port	30W, IEEE802.3af/at
Total PWR / Input Voltage	250W (100-240V)
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	330*204*44mm
Net /Gross Weight	<1.7kg / <2.2kg
Installation	Desktop, wall mounted,19 inch 1U cabinet
Certification	
Lightning protection / protection level	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC,CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS