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QUICK START GUIDE

International standard POE Switch

Applicable Model: TD-P3324、TD-P3316

Version : 1.0
Date : August 2023

Touching
the future

18-port Gigabit uplink POE power supply switch

TD-P3316

Product Description

TD-P3316 series unmanaged AI PoE switches, with 16 100M electrical ports + 2 Gigabit uplink electrical ports + 1 Gigabit SFP optical port slot, of which 1-16 ports support IEEE 802.3af/at standard PoE power supply , single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and identify standard powered devices and supply power to them through network cables. It can supply power to POE terminal equipment such as wireless AP, network camera, Internet phone, video door intercom, etc. through network cables, meeting the network environment that requires high-density PoE power supply, suitable for hotels, campuses, parks, banks, hospitals, factories, etc. Small and medium-sized businesses form cost-effective networks.

Non-network management model, plug and play, no need to configure, easy to use.

Product Feature

100M access, Gigabit optical uplink

◇Provide   16 10/100M electrical ports and 1 10/100/1000M electrical port + 1 1000M optical port, which is convenient for users to network flexibly and meet the networking needs of various scenarios.

◇ All ports support non-blocking wire-speed forwarding for smoother transmission.

◇ Support IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control.

Intelligent PoE power supply function

◇ 16 10/100Base-TX RJ45 ports support PoE power supply, meeting the needs of PoE power supply in scenarios such as security monitoring, teleconferencing systems, and wireless coverage.

◇ Comply with IEEE 802.3af/at PoE power supply standard, automatically identify PoE devices for power supply, without damaging non-PoE devices, and the maximum PoE output power of a single port is 30W.

◇ The PoE port supports a priority mechanism. When the remaining power is insufficient, the power supply of the high-priority port is given priority to avoid overloading of the device.

Innovative features

◇Long-distance mode (E): The switch is turned to "ON" position (default "OFF"), and the rate of opening 1-16 ports is reduced to 10M. Using the existing twisted pair, you can break through the 100-meter transmission limit of the twisted pair Limitation, the transmission distance can reach up to 250 meters; on the other hand, it can solve the problem of poor transmission caused by aging lines.

Simple operation

◇ Plug and play, no need to configure, simple and convenient.

◇ With a function switch, innovative and practical functions when one key is turned on.

◇ Users can easily understand the working status of the device through the power indicator (Power), port status indicator (Link, L/A), and PoE work indicator (PoE).

◇ Support desktop and 1U/19-inch cabinet installation.

Equipment is stable and reliable

◇ Low power consumption of the host, silent fan heat dissipation design, galvanized metal shell, to ensure stable operation of the product.

◇ Using self-developed power supply, high redundancy design, providing long-term stable PoE power output.

◇ The equipment meets the national CCC standard, fully complies with CE, FCC, and RoHS safety regulations, and is safe and reliable to use.

Product Specification

Model	TD-P3316	TD-P3324
port characteristics		
Fixed port	16 10/100Base-TX POE ports (Data/Power) 2 10/100/1000Base-T uplink RJ45 ports (Data) 1 1000Base-X SFP optical port slot (Data)	24 10/100Base-TX POE ports (Data/Power) 2 10/100/1000Base-T uplink RJ45 ports (Data) 1 1000Base-X SFP optical port slot (Data)
Network port characteristics	1-16 ports 10/100Base-TX, 17-18 ports 10/100/1000Base-T(X) automatic detection, full/half duplex MDI/MDI-X adaptive	1-24 ports 10/100Base-TX, 25-26 ports 10/100/1000Base-T(X) automatic detection, full/half duplex MDI/MDI-X adaptive
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 port characteristics	Gigabit SFP optical fiber interface, the default is not equipped with optical modules, which need to be purchased separately, (optional order mode/multimode, single fiber/dual fiber optical modules, LC)	
fiber optic cable	Multimode - working wavelength: 850nm, transmission distance: 0~500M; Single mode - working wavelength: 1310nm, transmission distance: 0-40KM; working wavelength: 1550nm, transmission distance: 0-120KM.	
function switch	1 (E, D, P) three gears, the default state is "OFF", after "ON" is turned on, the function description is as follows:	No
	E gear: When "ON", 1-16 ports long-distance 10M/250 meters + power supply port VLAN transmission mode; When "OFF", the normal 100m exchange transmission.	No
Chip parameters		
Network protocol	IEEE802.3 10BASE-T；　IEEE802.3i 10Base-T； IEEE802.3u100Base-TX； IEEE802.3ab 1000Base-T； IEEE802.3z 1000Base-X； IEEE802.3x	
forwarding mode	Store-and-forward (full wire speed)	
Backplane Bandwidth	12.8Gbps (non-blocking)	
Packet forwarding rate@64byte	5.36Mpps	6.55Mpps
MAC address table	16K	
packet forwarding cache	4M	
jumbo frame	10K	
LED indicator	Power indicator: PWR (green); Network indicator: Link (yellow); PoE indicator: PoE (green)	
PoE and Power Characteristics		
POE power supply	1-16 ports support IEEE802.3af/at standard	1-24 ports support IEEE802.3af/at standard

standard	POE power supply	POE power supply
power pin	Default 1/2(+), 3/6(-) 4-core power supply	
Maximum single port POE power	30W, standard IEEE802.3af/at	
Total power/input voltage	250W （AC100-240V)	
Power consumption	Standby power consumption: <15W; full load power consumption: <240W	Standby power consumption: <20W; full load power consumption: <250W
power supply	Built-in switching power supply, AC: 100～240V 50-60Hz 4.1A	
Physical Specifications		
Working temperature/humidity	-20～+55°C; 5%～90% RH non-condensing	
storage temperature/humidity	-40～+75°C; 5%～95% RH non-condensing	
Appearance size (L*W*H)	270*185*45mm	290*200*44mm
Net weight/Gross weight	＜1.5kg / ＜1.7kg	＜2.0kg / ＜2.3kg
installation method	Desktop, wall-mounted, rack-mounted	
Product Certification		
Lightning Protection/Protection Level	Port lightning protection: 4KV 8/20us; Protection class: IP30	
Certification	3C； CE mark, commercial； CE/LVD EN60950； FCC Part 15 Class B； RoHS；	

Model	Device Information	Standard power supply
TD-P3316	Unmanaged 16 10/100M RJ45 ports + 2 10/100/1000M uplink RJ45 ports + 1 1000M SFP optical port slot, Ethernet POE switch, of which 1-16 ports support IEEE 802.3af/at international standards, Adjust the function switch to achieve 1-16 ports 10M/250m long-distance transmission, and support 1U/19-inch cabinet installation.	250W
TD-P3324	Unmanaged 24 10/100M RJ45 ports + 2 10/100/1000M uplink RJ45 ports + 1 1000M SFP optical port slot, Ethernet POE switch, of which 1-24 ports support IEEE 802.3af/at international standards, Support 1U/19-inch cabinet installation.	250W

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