POE-SW1602

18-Port Unmanaged Switch with 16-Port PoE

- Intelligent PoE.
- PD alive (PoE watchdog).
- Long distance PoE transmission.
- Smooth transmission.
- Wide operating temperature: −10 °C to +55 °C (+14 °F to +131 °F).
- Port isolation.
- VIP port.

Series Overview

With its compact design, the Desktop PoE Switch is both convenient and highly cost-effective, easily adapting to a wide variety of scenes. It supports long distance PoE transmission up to 250 meters, and features Hi-PoE, PoE Watchdog, and power consumption management.

Functions

Hi-PoE 60W (Orange Port)

In addition to the IEEE802.3af and IEEE802.3at standards, orange port also supports a maximum power output of 60W for powering high-power devices.

Long Distance PoE

By turning on the DIP switch for long-range transmission, the transmission distance of a PoE port can be up to 250 m, meeting the requirement of wired transmission (bandwidth reduced to 10 Mbps).

PoE Watchdog

Adopts the innovative PoE Watchdog. PoE Watchdog can be switched on by turning on the DIP switch for PoE Watchdog . It enables the switch to automatically detect port status and restart the failed ports to recover connection in case of IPC connection exception. This enables intelligent operation and maintenance management in its true sense and effectively reduces manual maintenance costs.

Port Isolation

Devices under different ports are prevented from communicating with each other, without need of VLAN being configured. Data is also protected from being leaked from the PoE ports and broadcast storms are isolated, making the network safe and easy to use.

VIP Port

Gives priority to critical applications such as video monitoring, which can be connected to 1-8 VIP ports.

Technical Specification

Hardware

Included Power Adapter	Yes
PoE	Yes
Ethernet Port	16*10/100 Mbps PoE ports & 2*10/100/1000 Mbps Ethernet ports
Optical Port	0
Ethernet Port Speed	10/100 Mbps
Ethernet Port Uplink Speed	10/100/1000 Mbps
Reset Button	0
Power Supply	Built-in power supply: 100–240 VAC, 50/60 Hz, 2.83 A
Operating Temperature	−10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	10%–90% (RH), non-condensing
Storage Temperature	−40 °C to +85 °C (−40 °F to +185 °F)
Storage Humidity	5%–95% (RH), non-condensing
Power Consumption	Idling: 5 W; Full load: 135 W

Performance

Layer	Layer 2
Management Type	No
Smart Managed Switch	No
MTBF	64.17 years
Switching Capacity	7.2 Gbps
Packet Forwarding Rate	5.3568 Mpps
Packet Buffer Size	4 Mbit
Jumbo Frame	9K Byte
MAC Table Size	8K

Communication Standard	IEEE802.3; IEEE802.3u; IEEE802.3x; IEEE 802.3ab

Feature

PoE Protocol	IEEE802.3af; IEEE802.3at; Hi-PoE
PoE Power	Port 1–2 ≤ 60 W; Port 3–16 ≤ 30 W; Total ≤ 135 W
Intelligent PoE	Support PoE power prioritizing on port number
PoE Pin Assignment	1, 2, 4, 5 (V+), 3, 6, 7, 8 (V−)
ePoE	No
Long Distance PoE Transmission	Yes
Spanning Tree Protocol	No
VLAN Function	No
Link Aggregation	No
IEEE 802.3x Flow Control	Yes
Reliability	No
ARP	No
DHCP Function	No
Security	No
QoS/ACL	No
IPv6	No
Equipment Management	No

General

Statics Protection	Air discharge: 8 kV; Contact discharge: 6 kV
Lighting Protection	Common mode: 4 kV; Differential mode: 2 kV
Net Weight	1.60 kg (3.53 lb)
Gross Weight	2.28 kg (5.03 lb)
Product Dimensions	285.0 mm × 189.5 mm × 43.7 mm (11.22" × 7.46" × 1.72")
Packaging Dimensions	369 mm × 299 mm × 81 mm (14.53" × 11.77" × 3.19")
Casing Material	SGCC
Installation	Desktop mount; rack mount; wall mount
Certifications	CE, FCC

Transmission Performance:

Switch power supply voltage 53V.
CAT5E/CAT6. Max. DC resistance < 10 Ω/100 m

Cable(m)	Load Capacity(W)	Bandwidth(Mbps)
IEEE802.3bt 90 W		
100	71.3	100
150	62	10
200	51	10
250	40	10
Hi-PoE 60 W		
100	53	100
150	50	10
200	47	10
250	37	10
IEEE802.3at 30 W		
100	25.5	100
150	25.5	10
200	25.5	10
250	25.5	10