

POE-SW1604G

20-Port Unmanaged Hardened Switch with 16-Port PoE



Series Overview

Hardened PoE Switch is an unmanaged switch with a high-performance switch engine and large cache. It provides smooth transmission of video streams. With its full metal and fanless design, the switch has great heat dissipation and can operate in temperatures ranging -30°C to 65°C. It offers EMC and has protection against overvoltage, overcurrent, static electricity, lightning strikes, pulses and other types of interference. The redundant power supply ensures that the switch performs stably.

Functions

Intelligent PoE

Provides power consumption control and real-time monitoring to guarantee priority of power supply for important ports and prevent malfunctioning caused by power consumption change. Supports ultra wide power supply, able to adapt to IPC power fluctuation.

BT 90W (Red Port)

The red ports support IEEE802.3af, IEEE802.3at, IEEE802.3bt and Hi-PoE standards, with a maximum output power consumption of 90W per port. Suitable for powering high-power devices.

Eight-pin PoE

Supports 8-pin simultaneous power supply (1/2/4/5 positive, 3/6/7/8 negative). Signal lines and idle lines supply power at the same time. Compatibility with IPC is enhanced. Cable loss is reduced. Loading capacity is increased.

Long Distance PoE

The transmission distance of a PoE port can be up to 250 m, meeting the requirement of wired transmission (bandwidth reduced to 10 Mbps).

- Comes with 16 × 10/100/1000 Mbps PoE ports , 2 × RJ-45 10/100/1000 Mbps uplink ports and 2 × SFP 1000 Mbps uplink ports
- Meets the requirements of IEEE 802.3af and IEEE 802.3at power supply standards. The red port complies with Hi-PoE/IEEE 802.3bt standard.
- PoE watchdog monitor the real time status of the end device.
- Power consumption management.
- Fanless design.
- Supports desktop mount and guide rail mount.



All-Gigabit Ports

Designed with large buffer memory and all-Gigabit ports, enabling high-definition access of large stream.

Wide Operating Temperature (-30 °C to +65 °C)

Supports working at ambient temperatures of -30 °C to +65 °C, and has built-in professional lightning-proof circuits that effectively reduce the impact of thunderstorms on network systems and improve system robustness, allowing the device to adapt to harsh environments.

Scene

Suitable for indoor and outdoor scenes such as corridors, factories and industrial zones.

Technical Specification

Hardware

Included Power Adapter	Yes
PoE	Yes
Ethernet Port	16
Ethernet Port Speed	10/100/1000 Mbps
Ethernet Port Uplink Speed	10/100/1000 Mbps
Optical Port Uplink Speed	1 Gbps
Description of Function Slots	Port 1-16: 16× RJ-45 10/100/1000 Mbps (PoE) Port 17-18: 2 × RJ-45 10/100/1000 Mbps (uplink) Port 19-20: 2 × SFP 1000 Mbps (uplink)
Power Supply	External power supply: 48–57 VDC
Operating Temperature	–30 °C to +65 °C (+22 °F to +149 °F)
Operating Humidity	5%–95% (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: 7.06 W Full load: 199 W

Performance

Layer	Layer 2
Management Type	No
Switching Capacity	40 Gbps
Packet Forwarding Rate	29.76 Mbps
Packet Buffer Size	1 Mbit
MAC Table Size	4k
Communication Standard	IEEE802.3; IEEE802.3u; IEEE802.3x; IEEE802.3ab

Feature

PoE Protocol	IEEE802.3af; IEEE802.3at; Hi-PoE; IEEE802.3bt
PoE Power	Port 1–2 ≤ 90 W, Port 3-16 ≤ 30 W, total ≤ 190 W
PoE Power Consumption Management	Yes
PoE Pin Assignment	1,2,4,5 (V+) ,3,6,7,8 (V-)
Long Distance PoE Transmission	Yes

General

Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lighting Protection	Common mode: 4 kV Differential mode: 2 kV
Product Dimensions	64.8 mm × 121.8 mm × 171.0 mm (2.55" × 4.80" × 6.73") (L × W × H)
Packaging Dimensions	311.5 mm × 251.5 mm × 128.5 mm (12.26" × 9.90" × 5.06") (L × W × H)
Casing Material	Iron
Installation	Desktop mount; DIN-Rail mount

Ordering Information

Type	Part Number	Description
Ethernet Switch	DH-HS3220-16GT-190	20-Port Unmanaged Hardened Switch with 16-Port PoE