8-port PoE Gigabit Ethernet Switch

Unmanaged Swich PoE, PoE+, Hi-PoE, and PoE++ Switch

- Intelligent PoE for Power Consumption Management
- Long-distance PoE Transmission Distance, up to 250.0 m (820.21 ft)
- PoE Watchdog Function Monitors Network
- High-capacity Data Cache (4-megabit) for Real-time Transmission with smooth video
- Supports IEEE802.3af, IEEE802.3at, Hi-PoE, and IEEE802.3bt Standards
- New Limited Lifetime Warranty[1]

Product Overview

The 8-port ummanaged desktop gigabit switch is designed for field transmission applications and for high-definition video. The switch is equipped with a high-performance switching engine, a large buffer, low transmission delay, and high reliability. The switch offers eight (8) PoE ports, one of which supports the IEEE802.3bt (PoE++) and the Hi-PoE standards. In addition, the switch offers two (2) gigabit uplink combo ports.

Functions

Intelligent PoE

The switch features Intelligent PoE power consumption management to help keep the power and the data flowing, even when the switch experiences a power fault. Intelligent PoE monitors the power consumption of the connected devices, and in the event of large power fluctuations the switch shuts down one port at a time rather than shutting down all ports. Unlike typical switches that shut down all ports at once, this switch shuts down the highest number port first, then the next highest number until the switch detects the power consumption is below the PoE budget. For example, if the switch has eight PoE ports and each port is connected to a network camera, the switch disables port number 8 first, then subsequent ports until the power budget is below the threshold wattage.

PoE Watchdog

The switch automatically monitors each port for an active connection with the associated camera. If the switch detects a camera failure it powers off then restarts the PoE connection to restart the camera.

PoE++

The switch supports IEEE 802.3bt technology that delivers 90 W via a PoE port and drives high-power infrastructure for smart building systems, safe cities, thin clients, and many more applications. With this standard, the switch can power IT and IoT devices that demand increased power consumption resulting in lower installation and wiring costs.

Long-distance PoE Transmission

The switch extends PoE transmission distance to 250.0 m (820.21 ft), a significant improvement over typical switches.

Environmental

The switch is designed to operate in severe environments and in temperatures ranging from –10° C to +55° C (14° F to 131° F). The switch includes a professional-grade surge protection circuit that offers 4 kV (common mode) and 2 kV (differential mode) all-port surge protection. This protection reduces damage to the network from a lightning storm. The switch meets the Class B EMC standard and is suitable for residential, commercial, and light-industrial applications.

1. New switch warranty period is extended to two years after end of sale date.

Technical Specification

Ethernet Ports	Ports 1 through 8: 10/100/1000 Mbps, RJ45 Ports 9 and 10: 10/100/1000 Mbps (uplink), RJ45
PoE Power Consumption	Port 1: ≤ 90 W (IEEE802.3bt or Hi-PoE) Ports 2 through 8: ≤ 30 W (IEEE802.3at) Total Power Consumption: ≤ 96 W
PoE Protocol	PoE (IEEE802.3af), PoE+ (IEEE802.3at), Hi-PoE, PoE++ (IEEE802.3bt)
PoE PIN Assignment	1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-);
PoE Transmission Distance[2]	250.0 m (820.21 ft)
Switching Capacity	20 Gbps
Packet Forwarding Rate	14.88 Mpps
Packet Buffer Memory	1.5 Mbs
MAC Table Size	4K
Standards Compliance	IEEE802.3; IEEE802.3u; IEEE802.3x; IEEE802.3ab
Power Input	48 VDC to 57 VDC
Power Consumption	Idle: 3 W PoE Full Load: 96 W
Operating Temperature	–10° C to 55° C (14° F to 131° F)
Operating Humidity	5% to 95%, Relative
Electrostatic Discharge	Air Discharge: 8 kV Contact Discharge: 6 kV
Surge Protection	Common Mode: 4 kV Differential Mode: 2 KV
Dimensions (L x W x H)	190.0 mm x 100.30 mm x 30.0 mm (7.48 in. x 3.95 in. x 1.18 in.)
Net Weight	0.50 kg (1.10 lb)
Gross Weight	1.32 kg (2.91 lb)

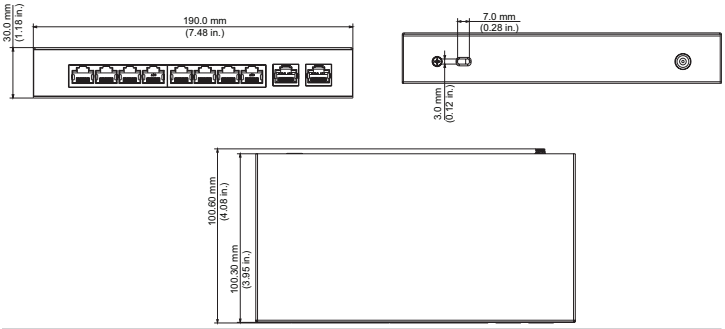
Certifications

Safety	EN 62368-1:2014
Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 subpart B EN 55032:2015+A11:2020; EN 55024:2010+A1:2015; EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 50130-4:2011+A1:2014

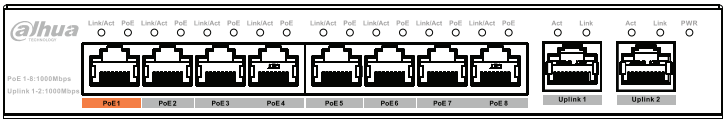
Ordering Information

Type	Part Number	Description
PoE Switch	DH-PFS3010-8GT-96	8-port Unmanaged Gigabit PoE Switch
Accessories, optional	GSFP-850-MMF	1.25 GB, 850 nm, 500 m, LC, Multi-mode
	GSFP-1310T-20-SMF	1.25 GB, 1310/1550 nm, 20 km, LC, Single Mode
	GSFP-1310R-20-SMF	1.25 GB, 1550/1310 nm, 20 km, LC, Single Mode

Dimensions



Front Panel



1. New switch warranty period is extended to two years after end of sale date.
2. Enabling 100 m (328.08 ft) to 250 m (820.21 ft) transmission distance will lower the transmission data speed from 1 Gbps to 10 Mbps.