

# DH-SG4020LP

# 20-Port Cloud Managed Desktop Gigabit Switch with 16-Port PoE



## **Series Overview**

Highly intuitive, the Cloud Managed Switch can manage local networks. With the DoLynk Care platform, it can also perform cloud management. The switch performs operation and maintenance using topology visualization on front-end, transmission and back-end storage devices that are in the security system and IT system. With its full metal design, the switch has great heat dissipation and can operate in temperatures ranging -10°C to 55°C(+14°F to +131°F). It offers EMC and has protection against overvoltage, overcurrent, static electricity, lightning strikes, pulses and other types of interference. For the PoE series Smart Managed Switch, power is supplied up to 250 meters away. The orange port supplies up to 60 W and the red port provides up to 90 W. Also, link aggregation and STP are available on select models to ensure the network remains stable. The switch can be used in small and medium-sized businesses such as supermarkets, offices, restaurants, cafés and hotels.

#### **Functions**

## Cloud Management

Devices can be managed through the DoLynk Care app and performs real-time monitoring of the network. The app also displays the status of devices, triggers alarms for errors in real time and sends notifications.

#### **Network Topology Management**

Supports the LLDP protocol and is able to generate and display the network topology, so that you can quickly identify issues, and perform operation and maintenance remotely on devices that are in the topology.

## 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.

- Meets the requirements of IEEE802.3,IEEE802.3u,IEEE802.3x,IEEE802.3ab,IEEE802.3z standards.
- Meets the requirements of IEEE802.3af, IEEE802.3at, Hi-PoE, and IEEE802.3bt power supply standards.
- Manages PoE power consumption and PoE power on/off. Supports Intelligent PoE.
- A wide operating temperature range and a full metal casing that is fully-enclosed and dust-proof.















## 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).

# Spanning Tree Protocol (STP)

Uses algorithms that calculate the best loop-free path through a Layer 2 network while providing path redundancy to prevent the occurrence of broadcast storms and enhance the stability of operations and services.

### PoE Watchdog

Adopts the innovative 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.

#### **Loop Protection**

When a loop is detected, the loop alarm will be triggered and the elimination mechanism will activate to prevent broadcast storms from occurring.

#### Scene

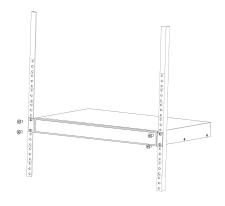
Suitable for scenes such as houses, factories and offices.

Technical Specification			
Basic			
Layer	Layer 2		
Switching Capacity	40 Gbps		
Packet Forwarding Rate	29.76 Mpps		
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)		
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)		
Operating Humidity	5% –95% (RH), non-condensing		
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)		
Storage Humidity	5%–95% (RH), non-condensing		
Power Supply	Built-in power supply: 100–240 VAC, 47–63 Hz, max 4A		
Power Consumption	Idling: ≤8.3 W ; Full load: 212 W		
Statics Protection	Air discharge: 8 kV; Contact discharge: 6 kV		
Lightning Protection	Common mode: 4 kV; Differential mode: 2 kV		
Net Weight	2.32 kg (5.10 lb)		
Gross Weight	2.97 kg (6.53 lb)		
Product Dimensions	440 mm × 220 mm × 44 mm (17.32" × 8.66" × 1.73") (L × W × H)		
Packaging Dimensions	540 mm $\times$ 342 mm $\times$ 90 mm (21.26" $\times$ 13.46" $\times$ 3.54") (L $\times$ W $\times$ H)		
Casing Material	Sheet metal		
Installation	Desktop mount; rack mount		
Certifications	CE		
PoE			
PoE	Yes		
PoE Power	Port 1-2 ≤ 90 W, Port 3-16 ≤ 30 W, total ≤ 190 W		
PoE Protocol	IEEE802.3af; IEEE802.3at; Hi-PoE; IEEE802.3bt		
PoE Power Consumption Management	Yes		
PoE Pin Assignment	1,2,4,5 ( V+ ) ,3,6,7,8 ( V- )		
Long Distance PoE Transmission	Yes		
Hardware			
Reset Button	1		
Performance			
MTBF	86.94 years		
Packet Buffer Size	4 Mbit		
Jumbo Frame	15K Byte		
MAC Table Size	8K		
Communication Standard	IEEE802.3; IEEE802.3u; IEEE802.3x; IEEE802.3ab; IEEE802.3z		
VLAN Number	32		

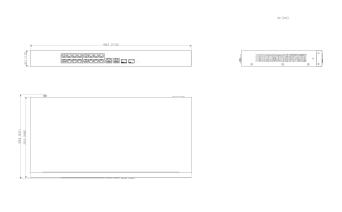
Feature		
Ethernet Loop Protection	STP/RSTP	
VLAN Function	Port-based VLAN	
Link Aggregation	Yes	
DHCP Function	DHCP Client	
Equipment Management	Web management	
General		
Packing List	Quick Start Guide × 1; Legal and Regulatory Information × 1; Power cord × 1; Rack-mount kit × 1	

Ordering Information			
Туре	Model	Description	
PoE Switch	DH-SG4020LP	20-Port Cloud Managed Desktop Gigabit Switch with 16-Port PoE	

# Installation



# Dimensions (mm[inch])



# **Panels**

