

Product Specifications

8-Port 10/100/1000T Wall-mounted Gigabit Ethernet Switch

WGS-810

Version 1.0

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Change History:

Revision:	Date:	Author:	Change List
1.0	2020/3/12	Ricebean	Initial Release

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1. PRODUCT FEATURES

▶ **Physical Port**

- **8-Port 10/100/1000BASE-T** Gigabit RJ45 copper

▶ **Layer 2 Features**

- High performance Store and Forward architecture; runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation
- 9K jumbo frame is supported in 1000Mbps duplex mode
- Automatic address learning and address aging

▶ **Industrial Case and Installation**

- Compact size; wall-mounted, magnetic wall-mounted and DIN-rail designs
- IP30 metal chassis
- Supports -20 to 60 degrees C operating temperature
- 12V DC input range for booting with reverse polarity protection

2. PRODUCT SPECIFICATIONS

2.1 MAIN COMPONENT

Switch ASIC: Realtek RTL8370N x 1

2.2 FUNCTION SPECIFICATIONS

Model		WGS-810
Hardware Specifications		
Network Connector		8-Port RJ45 for 10/100/1000BASE-T
Switch Architecture		Store and forward
MAC Address Table		4K MAC address table with auto learning function
Switch Fabric		16Gbps / non-blocking
Switch Throughput		11.9Mpps@64Bytes
Jumbo Frame		9Kbytes
Flow Control		IEEE 802.3x pause frame for full duplex Back pressure for half duplex
LED Indicators	Power LED:	• Power (Green)
	10/100/1000BASE-T Port	• LNK/ACT (Green)
ESD Protection		4KV DC
DIP Switch		Selectable operation modes: <ul style="list-style-type: none"> ■ Standard: Transmission distance of 100m ■ VLAN: Port-based VLAN ■ Extend: Transmission distance of 250m at speed of 10Mbps
Connector		DC power jack with 2.0mm central pole
Power Requirements		12V DC, 1A (max.)
Enclosure		IP30 metal
Dimensions (W x D x H)		148 x 25 x 134 mm
Weight		446 g
Installation		Fixed wall mounting, magnetic wall mounting and DIN-rail mounting
Standard Conformance		
Standard Compliance		IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Flow Control IEEE 802.3z Energy Efficient Ethernet

Regulation Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC 60068-2-32 (Free fall) IEC 60068-2-27 (Shock) IEC 60068-2-6 (Vibration)
Environment	
Operating	Temperature: -20 ~ 60 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -20 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

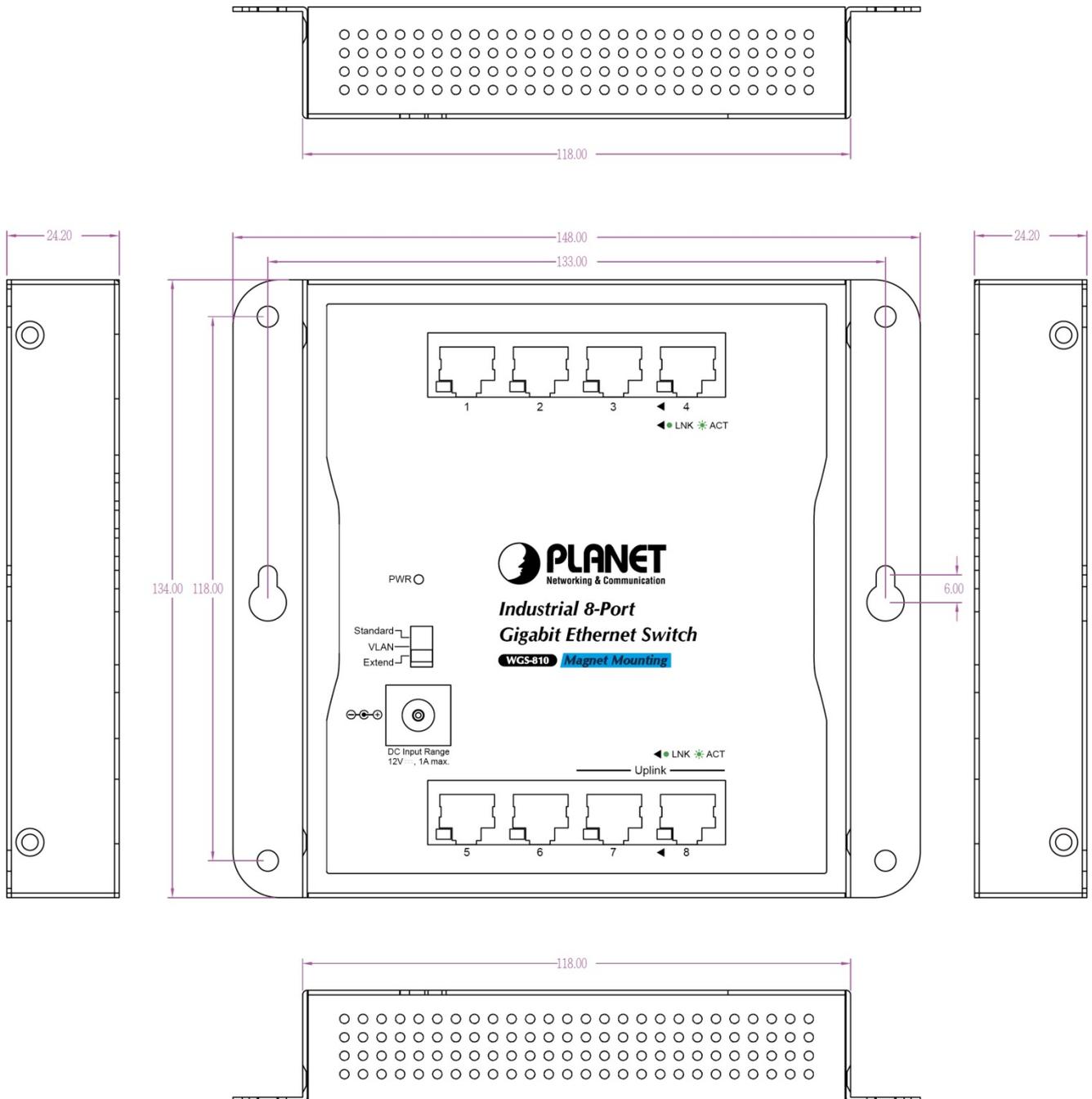
2.3 PHYSICAL SPECIFICATIONS:

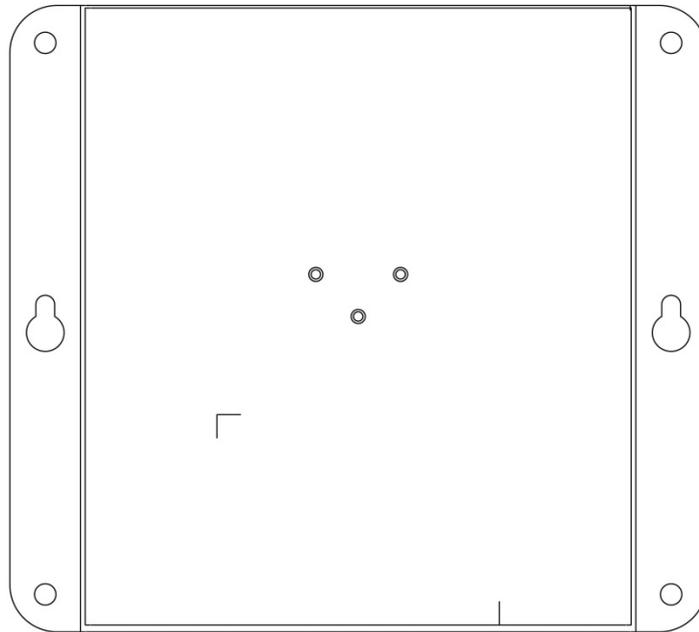
Dimensions:

148 x 25 x 134mm (W x D x H), 1U height

Weight:

446 g





■ Front Panel:



LED Definition

■ System and Ports

LED	Color	Function
PWR	Green	Lights to indicate that the Switch has power.
LNK/ACT	Green	Lights To indicate the link through that port is successfully established.
		Blinks To indicate that the switch is actively sending or receiving data over that port.

2.4 ENVIRONMENTAL SPECIFICATIONS

Operating:

Temperature: -20°C ~ 60 degrees C

Relative Humidity: 5% ~ 95% (non-condensing)

Storage:

Temperature: -40°C ~ 70 degrees C

Relative Humidity: 5% ~ 95% (non-condensing)

2.5 ELECTRICAL SPECIFICATION

Model	WGS-814HP	
DC Power Input Voltage Range:	DC12V, 1A	
Power Consumption	System on	0.36 watts / 1.2 BTU
	Full Loading	3 watts / 10.2 BTU

2.6 REGULATORY COMPLIANCE

FCC Class A, CE.

2.7 RELIABILITY

MTBF > 50,000 hrs @ 25 degrees C

2.8 BASIC PACKAGING

- The wall-mounted switch x 1
- User manual x 1
- Power adapter x 1

2.9 PACKING INFORMATION

Box Dimensions (W x D x H)	229 x 197 x 70 mm
Weight	0.8kg
Carton Dimensions (W x D x H)	480 x 420 x 370 mm
Carton Weight	16.7 kg
Quantity	20pcs in one carton