

# Accept specification

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客 户 料 号 (PART NO.) :	
客 户 品 名 (DESCRIPTION) :	
产 品 型 号 (PRODUCT TYPE) :	GS105L
内 部 版 本 (VERSION) :	V1.0
文 件 版 本 (FELE VERSION) :	A/0

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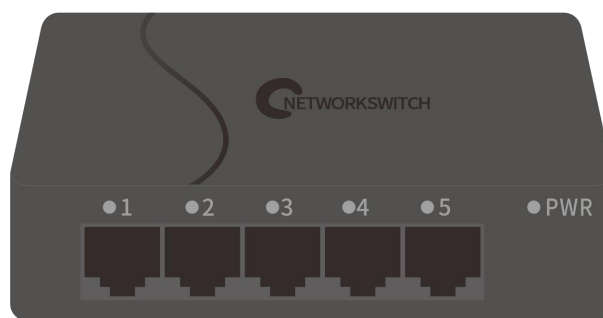
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# The Specification Of Cloud-managed Switch Series (GS105L)

## 1. Product Introduction:

This product is a full gigabit cloud management switch independently developed by our company. It provides 5 10/100/1000Base-T RJ45 ports, It supports remote mobile phone access for monitoring the operating status of the switch and the management of various network functions. The switch can be remotely managed through the APP "Amitres IOT", and the switch ports can be remotely viewed and managed. It also supports management through web page login.



## 2. Functional Features:

- Support 802.1Q VLAN, MTU-VLAN, Port VLAN, suitable for a variety of networking business needs;
- Support port isolation and port mirroring;
- Watchdog function of the whole machine;
- Support network loop detection;
- Support port QOS, port traffic restriction;
- Support broadcast and multicast storm suppression;
- Support APP "Amitres IOT" remote management switch, support local web management;
- Provide 5 10/100/1000Base-T RJ45 ports;
- Support 802.3az Ethernet EEE, support power saving mode;
- Support 4 Mbits packet cache; support 15kbytes giant frame;
- All ports support Auto Flip (Auto MDI/MDI-X) function;
- Support IEEE802.3X full duplex flow control and Backpressure half duplex flow control;
- Support for autonomous learning and aging of MAC addresses;
- Support port MAC binding;
- Cloud network management: visual remote management, on-site problems, remote resolution;
- Overcurrent overload short circuit protection, eliminate hidden dangers, power safety;
- Plastic housing, plug and play;

### 3. Definition Of Indicator:

Indicator Light	Definition	Functional Description
PWR	Power Indicator	Switch power status indicator, light up to indicate that the device is started
Port Indicator	Link/ACT	ON: the port link is normal; Flashing: data transmission is in progress

### 4. Basic Specification

Item	Parameter
Port Composition	5 1000Mbps .RJ45 ports
Backplane Bandwidth	10G
MAC Addresses	2K
Packet forwarding rate@64byte (throughput)	7.44Mpps
Power Specifications	AC input 100~240V, 50/60Hz Built-in power supply
Network Media And Transmission Distance	1000Base-T: 4 pairs of Super Class 5 (Cat5e) or above UTP/STP ( $\leq 100m$ ) 100Base-TX: 2 pairs of 5 (Cat5) or above UTP/STP ( $\leq 100m$ ) 10Base-TX: 2 pairs of 5 (Cat5e) or above UTP/STP ( $\leq 250m$ )

### 5. Software Specification

Item	Parameter
Basic Function	Comply with IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet protocol standards Store and forward MAC automatic learning and aging IEEE802.3X Full Duplex Flow Control and Backpressure Half Duplex Flow Control
Ethernet Protocols And Standards	IEEE 802.3 Ethernet Media Access Control Protocol IEEE 802.3i 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3x Traffic Control
Data Transfer Rate	Ethernet 10Mbps half duplex, 20Mbps full duplex Fast Ethernet 100Mbps half duplex, 200Mbps full duplex Gigabit Ethernet 2000Mbs Full Duplex

Item	The supported contents of the remote control end (through the APP “Amitres IOT”)
Cloud Network Management: Information View	Switch SN information, device model, firmware version, real-time IP, real-time port power, port LINK status, link duplex, up and down rate, VLAN status;
Cloud Network Management: Device Operation	Port isolation setting, port restart, port closure, port speed limit, port ultra-remote switch, switch whole machine restart, whole machine setting reset, port duplex setting, firmware upgrade, VLAN setting;
Safety Features	Order-based protection Support MAC/PORT binding Support DHCP snooping and DHCP attack protection Support port mirroring Support broadcast and multicast storm suppression Support end-port security and end-port isolation Support CPU protection function
Access Control (ACL)	Supports port mirroring, port redirection, stream speed limiting, QoS relabeling
Quality of Service (QoS)	Supports 5 ports queue Support port priority, 802.1P priority, DSCP priority Support SP, WRR, SP + WRR, Equ priority scheduling algorithm
Management And Maintenance	Support WEB management Support PC client side management Support remote management via APP “Amitres IOT”

## 6. Environmental Requirements

Environment	Parameter
Temperature	Working Temperature: 0°C~40°C Storage Temperature: -40°C~70°C
Humidity	Working Humidity: 10%~90% RH non-condensing Storage Humidity: 5%~90% RH non-condensing
Altitude	Working: The maximum is 6500 feet (2000 meters) Storage: The maximum is 6500 feet (2000 meters)

## 7. Weight

Category	Weight
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Bare board (excluding packaging)	Approximately 0.12kg
FCL weight (100PCS)	Approximately 14.5kg

## 8. Size Specification

Category	Parameter
Bare Machine	106mm*74mm*24mm
Whole Machine (Neutral Packing)	105mm*133mm*30mm
FCL(100PCS/carton)	550mm*340mm*290mm
Tail length (including plug)	700mm

## 9. Package、Transportation、Storage

Packing Content	Parameter
Fill protection	Independent box packaging
Packing Box	High-quality kraft carton, size 550mm*340mm*290mm
Packaging Quantity	100PCS
Other	The packaging box should be labeled with the product model code and quantity.

**Transport Requirements:** Domestic designated express logistics can be transported in whole boxes, suitable for transportation by car, ship, and plane. During transportation, it should be covered, sun protected, and loaded and unloaded in a civilized manner.

### Store Requirements:

Index	Requirements
Humidity Environment	5%~90% RH non-condensing
Temperature Environment	-40°C~70°C, Considering humidity, the most reasonable state is recommended for room temperature conditions
Stack Limit	In the complete packaging state, the maximum limit of 4 layers is
Precautions	The storage warehouse should be clean, ventilated, free of corrosive gases, flammable, explosive, and other corrosive chemicals. Keep away from heat sources and sources of strong mechanical vibration.
Storage Cycle	According to the above requirements, it can be stored reasonably for one year. After 2 years, it is recommended to re-inspect and then use it.