

Product Specification

8-Port 10/100/1000Mbps Gigabit Ethernet Switch

GSD-804

Version 6.0

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Change History:

Revision	Date	Author	Change List
Version 6.0	2012/1/13	Bryant Wu	Initial Release

Author	Bryant Wu	Editor:	Bryant Wu
Reviewed by:	Kent Kang	Approved by:	Tom Shih

1. PRODUCT DESCRIPTION



As the increasing popularity of Desktop and Laptop with built-in Gigabit Network Interface, and widely application of Share Database Device and Multi-Media Center day by day, super high speed Ethernet switch will become the main stream in the market gradually. The PLANET GSD-804 is 8-Port 10/100/1000Mbps Gigabit Ethernet Switch with new plastic shape for easily desktop deployment in compact housing or SOHO application.

Provide 16Gbps internal switching fabric; the GSD-804 can handle extremely large amounts of data in a secure topology linking to a backbone or high capacity servers. The GSD-804 provides 8K MAC address table and 1Mbits buffer memory, the device offer wire-speed packet transfer performance without risk of packet loss. The Gigabit ports with 9K jumbo packet support can handle large amounts of data transmission in a secure topology linking to a backbone or high-power servers. The high data throughput of the device makes it ideal for most Gigabit environments, especially network upgrades to a Gigabit environment.

All RJ-45 copper interfaces support 10/100/1000Mbps Auto-Negotiation for optimal speed detection through RJ-45 Category 5, 5e or 6 cables. It supports standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

Backbone Switch

With a non-blocking design, compact size and up to 16 Gigabit per second, the GSD-804 8-Port 10/100/1000Mbps Gigabit Ethernet Switch make it easy to install a Fast Ethernet network, and can be used to build a Gigabit high-bandwidth switched network quickly and easily. The GSD-804 can directly connect to department Switches or backbone servers.

Home/SOHO High Speed Network Center

PLANET GSD-804 Gigabit Switch provides the best solutions to high-speed internet environment demanded by SOHO/Home and Power users. In the aspect of home-using, integrating the speeds of 10, 100 and 1000Mbps can fulfill your demands of not only transmitting multimedia of high quality, games and internet but also other application of high speed internet. The application of Workgroup can improve efficiency of work.

2. PRODUCT FEATURES

- ◆ Comply with IEEE 802.3, 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T
- ◆ 8-Port 10/100/1000Mbps Gigabit Ethernet ports
- ◆ Power Saving ability for Green networking
- ◆ Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- ◆ Hardware based 10/100Mbps, Half / Full duplex and 1000Mbps Full duplex mode, Flow control and Auto-negotiation
- ◆ IEEE 802.3x flow control for full duplex operation and Backpressure for half duplex operation
- ◆ Integrated address look-up engine, support 8K absolute MAC addresses
- ◆ 1Mbits on-chip frame buffer
- ◆ 9K Jumbo packet support
- ◆ Automatic address learning and address aging
- ◆ Supports Auto MDI/MDI-X function
- ◆ Support CSMA/CD protocol
- ◆ FCC, CE class B compliant

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

Switch ASIC: Realtek 8370 x1

3.2 Functional Specifications

Product	GSD-804(V6)
Hardware Specification	
10/100/1000Base-T Ports	8 Auto MDI/MDIX ports
Enclosure	Plastic
Dimensions (mm)	168 x 100 x 29
Weight (g)	183
Power Requirement (External power adapter)	DC 5V, 1A
Power Consumption (100M Full operating)	4.3Watts / 14 BTU
Switch Specification	
Switch Processing Scheme	Store-and-Forward
Address Table	8K entries
Flow Control	Back pressure Half Duplex, IEEE 802.3x Pause Frame Full Duplex

Switch fabric	16Gbps
Throughput (packet per second)	11.9Mpps
Jumbo packet size	9K
Standards Conformance	
Standards Compliance	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3ab(Gigabit Ethernet) IEEE 802.3x (Full-duplex Flow Control)
Temperature	Operating: 0~50 Degree C Storage: -20~70 Degree C
Humidity Operating	Operating: 5% to 90%, Storage: 5% to 90% (Non-condensing)
Regulation Compliance	FCC Part 15 Class B, CE

3.3 PHYSICAL SPECIFICATION

Dimensions (W x D x H)

168 x 100 x 29 mm (Plastic box)

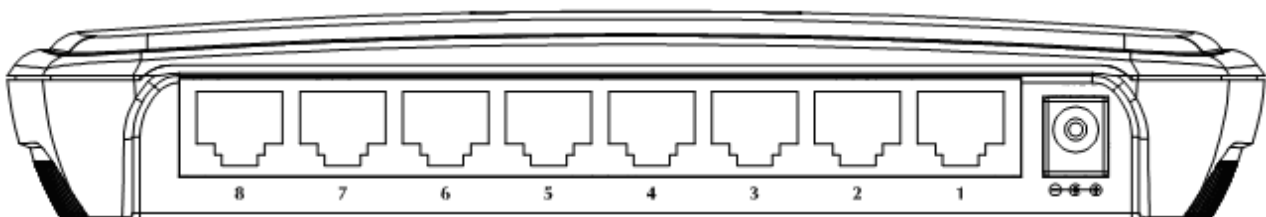
Weight:

184g

Front panel



Real panel



LED Definition

LED	Color	Function	
PWR	Green	Light	Indicate that the Switch is Powered ON.
		OFF	Indicate that the Switch is Powered OFF.
Link/ACT	Green	Light	Indicates the link through that port is successfully established at 10/100/1000Mbps.
		Blink	Indicates the Switch is actively sending or receiving data over that port.

3.4 ENVIRONMENTAL SPECIFICATION

Operating

Temperature: 0~50°C

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

Storage

Temperature: -20~70°C

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

3.5 ELECTRICAL SPECIFICATION

Input Voltage: External Power Adapter 5V 1A

Power consumption: 4.3Watts / 14 BTU

(100M Cable Length)

3.6 REGULATORY COMPLIANCE

FCC Class B, CE.

3.7 RELIABILITY

MTBF > 50,000 hrs @ 25 Degree C

3.8 BASIC PACKAGING

- Gigabit Ethernet Switch x 1
- User's Manual x 1
- Power Adapter x 1

3.9 PACKAGING INFORMATION

Dimension: 192mm x 142mm x 85mm (W x D x H)

Weight: 429g (Gross Weight)

Unit per carton: 15pcs in one carton