

8-Port 10/100/1000BASE-T Gigabit Ethernet Switch



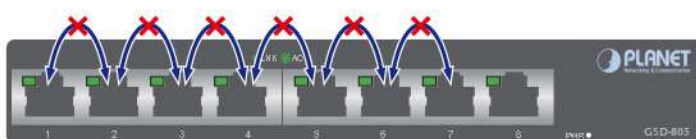
Energy-saving and Gigabit High-performance Networking Solution

PLANET GSD-805 8-Port 10/100/1000BASE-T Gigabit Ethernet Switch is a green networking solution in line with the energy-saving trend worldwide, but it comes with Gigabit wire-speed performance. Its compact metal housing makes the deployment of Gigabit networks easy for homes, SOHOs and SMBs that are space limited. The operating switch is noiseless as it has a fanless feature. Its internal power supply can be directly plugged into an electrical outlet without having to use a power adapter.

VLAN Isolation

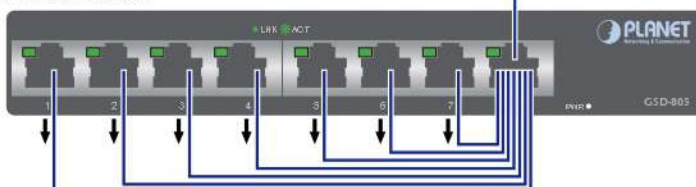
The GSD-805 is equipped with the **VLAN Isolation** feature. When switching the DIP to the “**Enable**” position, ports 1 to 7 are not able to communicate with one another. This helps to prevent the IP camera’s multicast or broadcast storm from influencing one another.

Port Isolation



Ports 1 to 7 Can Only Communicate with Uplink Port 8

Port-based VLAN



Saving Power by 40%

The GSD-805, incorporating two advanced Green Networking technologies, is able to save power by up to 40% but maintains high performance efficiently.

(1) Hibernation Link Down Power Saving

The Hibernation Link Down Power Saving goes beyond IEEE specifications to automatically lower the power supply for a given port when it is not linked. With the Hibernation Link Down Power Saving technology, the GSD-805 will automatically adjust power usage of the ports that are shut down or not connected to a network device.

RJ45 Interface

- 8 10/100/1000Mbps Gigabit Ethernet ports
- Complies with IEEE 802.3, 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T
- Supports auto MDI/MDI-X function

Switching

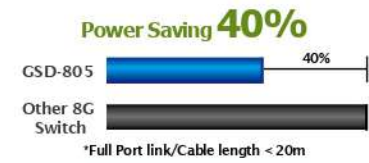
- Hardware-based 10/100Mbps in half / full duplex mode and 1000Mbps in full duplex mode, flow control, and auto-negotiation
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow control for full duplex operation and backpressure for half duplex operation
- Integrated address look-up engine, supporting 8K absolute MAC addresses
- 9K jumbo packet size
- Automatic address learning and address aging
- Supports VLAN isolation mode
- Supports CSMA/CD protocol

Hardware

- Metal housing, desktop size and wall-mount design
- LED indicators for system power, Link / Act port
- Internal power adapter 100-240V AC, 50/60Hz, 0.2A
- FCC, CE Class B compliant

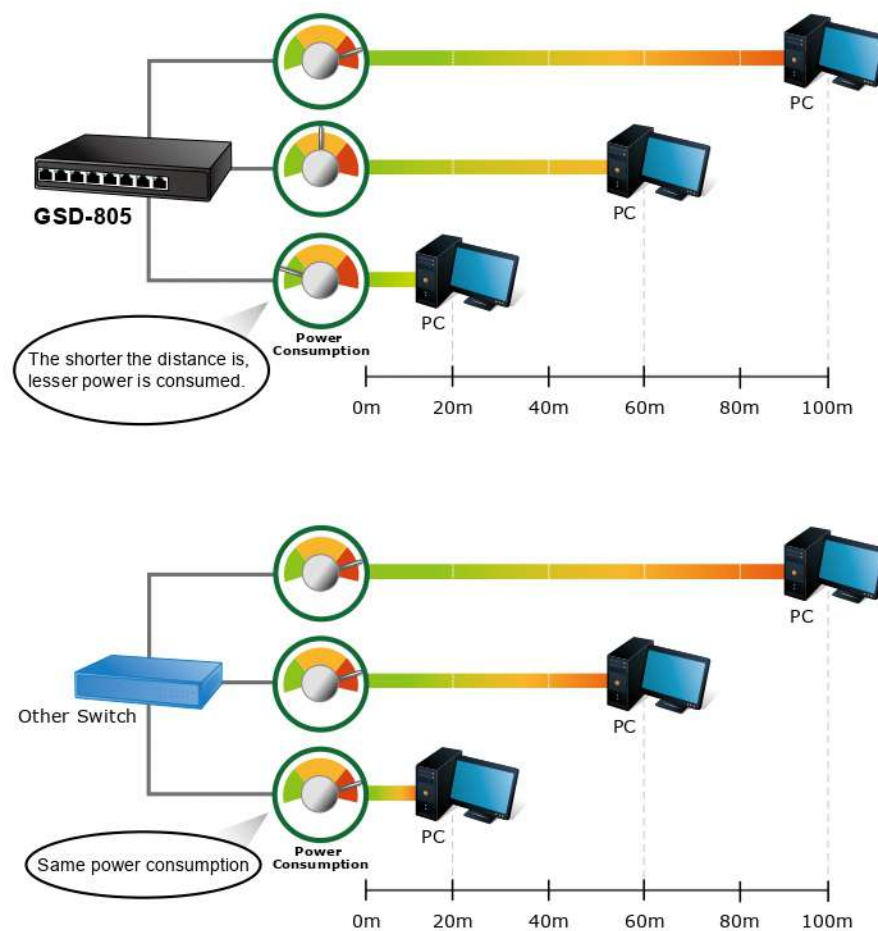
(2) Intelligent Scales Power based on cable length

Intelligent scales power, the other technology adopted, is an intelligent algorithm that actively determines the appropriate power level based on cable length. When the GSD-805 is connected with Ethernet cable shorter than 20m, a device can obtain maximum power saving because the GSD-805 would automatically detect the Ethernet cable length and diminish power usage. The connected device can substantially reduce the overall power consumption, which makes a significant contribution to energy saving.



**Save
26,280 Watts
yearly**

Intelligent Power Savings



Robust Protection

The GSD-805 protects against the ESD 4KV surge to improve product stability and also protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

Leading Home, SOHO and Workgroup Users to High-speed Networking Generation

Providing 16Gbps internal switching fabric, the GSD-805 can handle an extremely large amount of data in a secure topology linking to a backbone or high capacity servers. The GSD-805 provides 8K MAC address table, and wire-speed packet transfer performance without risk of packet loss. The high data throughput of the device makes it ideal for Gigabit environments, especially for the network upgraded to a Gigabit environment.

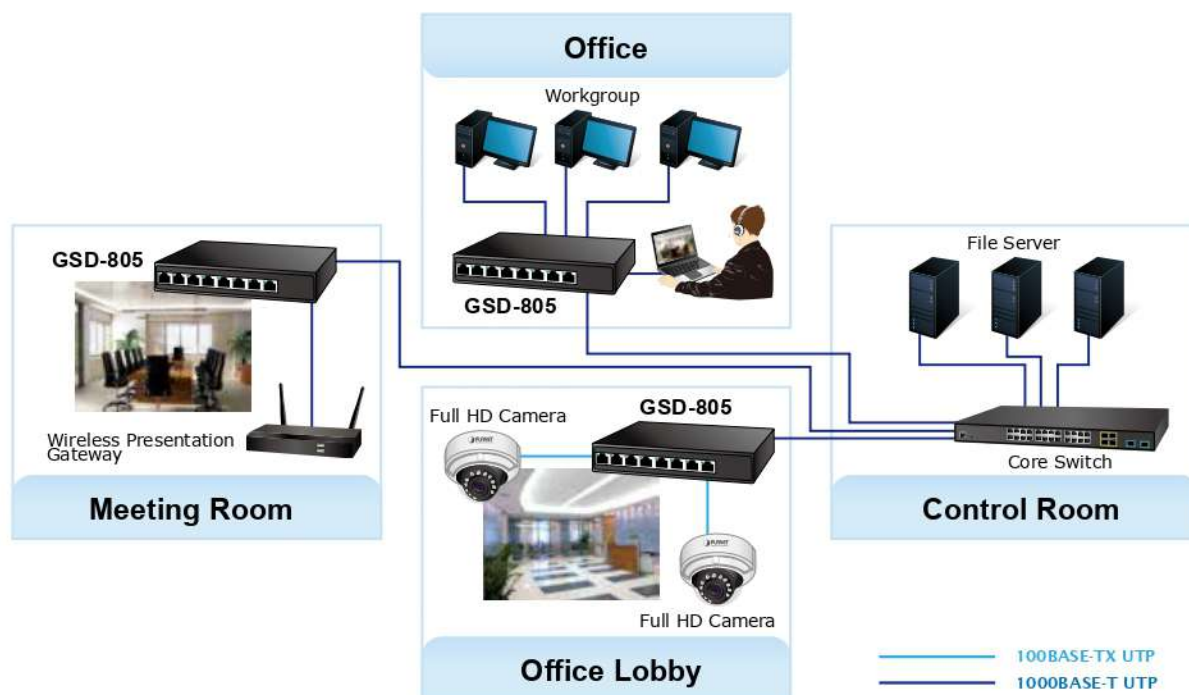
Plug & Play

All RJ45 copper interfaces of the GSD-805 support 10/100/1000Mbps auto-negotiation for optimal speed detection through RJ45 Category 5, 5e or 6 cables. They support standard auto-MDI/MDI-X feature which can detect the type of connection to any Ethernet device without requiring special straight-through or crossover cables.

Applications

Small-scale Backbone Switch

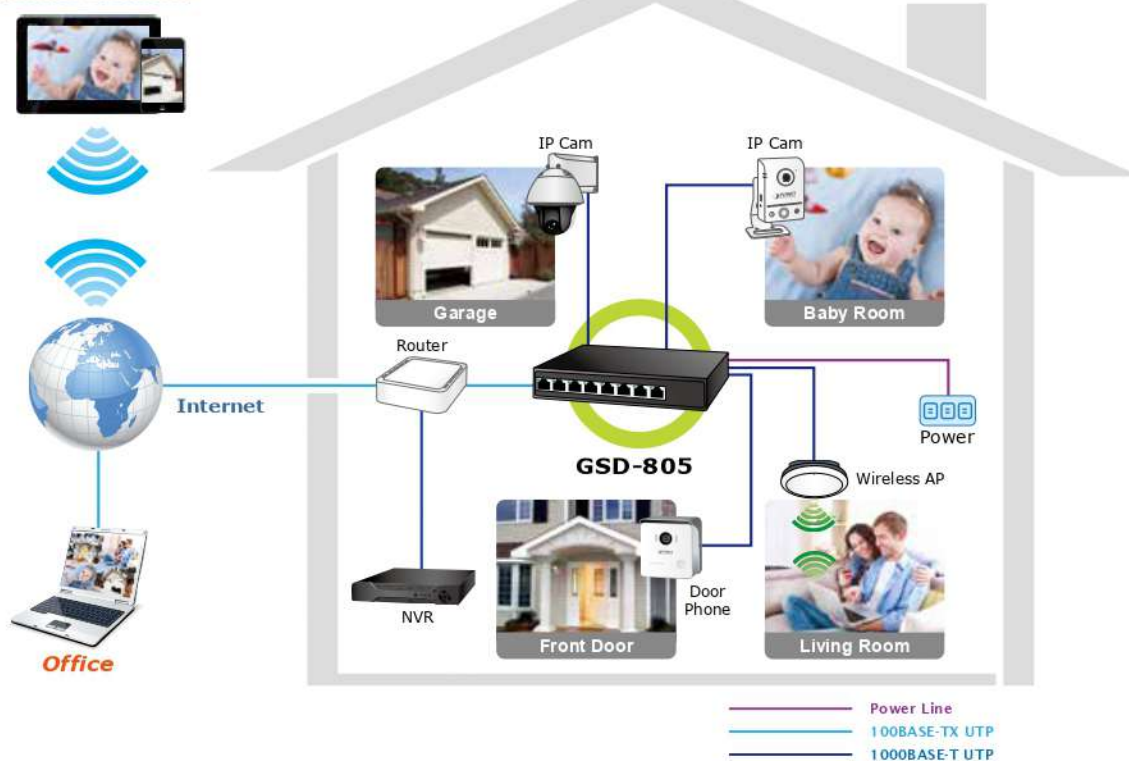
The GSD-805 can directly connect to department switches or backbone servers. With up to 16 Gigabit per second of non-blocking switch fabric, the GSD-805 can be used to build a Gigabit high-bandwidth switched network quickly and easily.



Home/SOHO High-speed Network Center

The GSD-805 Gigabit Ethernet Switch provides the best solution of high-speed Internet environment demanded by SOHO / Home and Power users. The GSD-805 accelerates the speed of data transmission between devices without worrying about the delay of high-quality multimedia display. In the aspect of home use, the GSD-805 integrates the speeds of 10, 100 and 1000Mbps which can fulfill your demands of transmitting high-quality multimedia, games and other high-speed Internet applications.

Mobile Network



Specifications

Model	GSD-805		
Hardware Specifications			
Network Connector	8-Port RJ45 for 10/100/1000BASE-T, auto MDI/MDIX		
LED Display	System: Power (Green) Per port: 10/100/1000 LNK/ACT(Green)		
Switch Architecture	Store and Forward switch architecture		
MAC Address Table	8K MAC address table with auto learning function		
Packet Buffer	1Mbit		
Switch Fabric	16Gbps		
Switch Throughput	11.9Mpps @64 bytes		
Jumbo Packet	9216 bytes		
Flow Control	Back pressure for half-duplex. IEEE 802.3x pause frame for full-duplex		
Power Requirements	Internal power 100-240V AC, 50/60Hz, 0.2A		
Power Consumption	Max. 2.4 watts/8.1 BTU		
Dimensions (W x D x H)	168 x 93 x 32mm		
ESD Protection	Contact Discharge 4KV DC Air Discharge 6KV DC		
EFT Protection	ESD (Ethernet): 2KV Surge (EFT for power): 4KV		
Surge Protection	Different module ±1.5KV Common mode ±2KV		
Electrostatic Standard	±2KV		
Weight	428g		
Standard Conformance			
EMI Safety	FCC Class B, CE		
Standard Compliance	IEEE 802.3	Ethernet	
	IEEE 802.3u	Fast Ethernet	
	IEEE 802.3ab	Gigabit Ethernet	
	IEEE 802.3az	Energy-Efficient Ethernet	
	IEEE 802.3x	Flow Control	
Environment			
Operating Environment	0 ~ 50 degrees C		
Storage Environment	-10 ~ 70 degrees C		
Operating Humidity	5 ~ 95%, relative humidity, non-condensing		
Storage Humidity	5 ~ 95%, relative humidity, non-condensing		

Ordering Information

GSD-805	8-Port 10/100/1000BASE-T Gigabit Ethernet Switch
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Related Products

GSD-503	5-Port 10/100/1000BASE-T Gigabit Ethernet Switch
GSD-504	5-Port 10/100/1000BASE-T Gigabit Ethernet Switch
GSD-803	8-Port 10/100/1000BASE-T Gigabit Ethernet Switch
GSD-804	8-Port 10/100/1000BASE-T Gigabit Ethernet Switch

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City
231, Taiwan (R.O.C.)

Tel: 886-2-2219-9518

Email: sales@planet.com.tw

Fax: 886-2-2219-9528

www.planet.com.tw



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GSD-805