

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



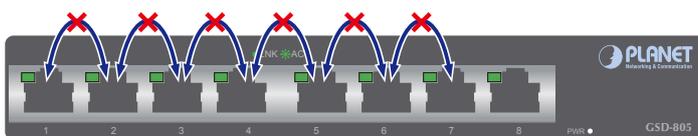
### Energy-saving and Gigabit High-performance Networking Solution

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

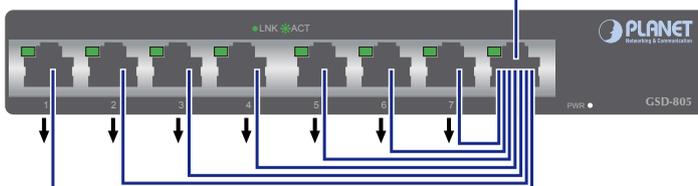
The GSD-805 is equipped with the **VLAN Isolation** feature. When switching the DIP to the “**Enable**” position, ports 1 to 7 are not able to communicate with one another. This helps to prevent the IP camera’s multicast or broadcast storm from influencing one another.

#### 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

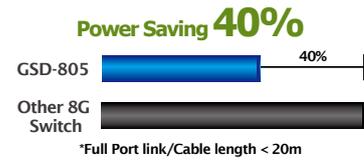
- Hardware-based 10/100Mbps in half / full duplex mode and 1000Mbps in full duplex mode, flow control, and auto-negotiation
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow control for full duplex operation and backpressure for half duplex operation
- 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

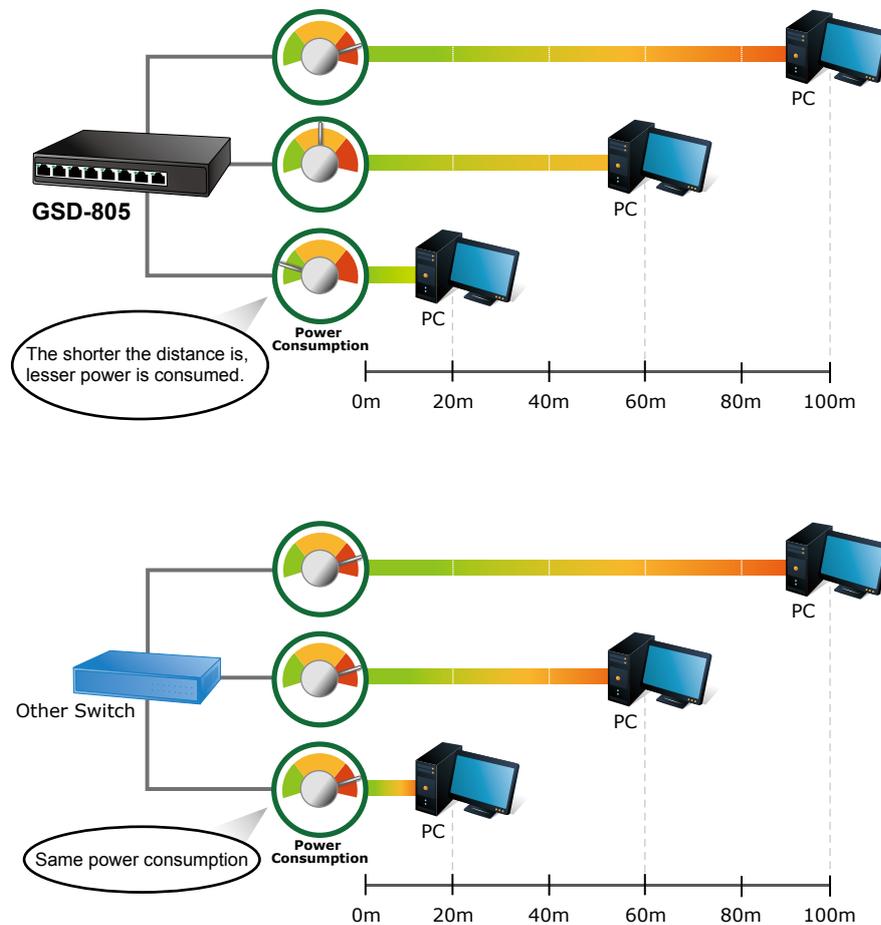
**(2) Intelligent Scales Power based on cable length**

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.

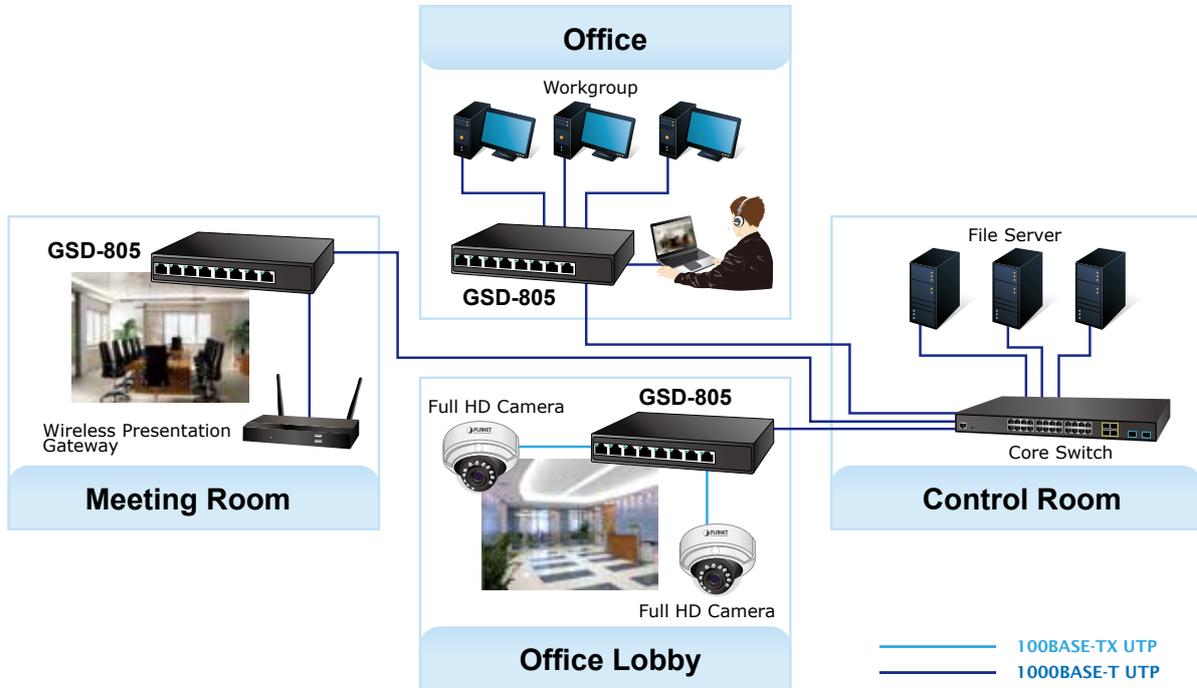
**Plug & Play**

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

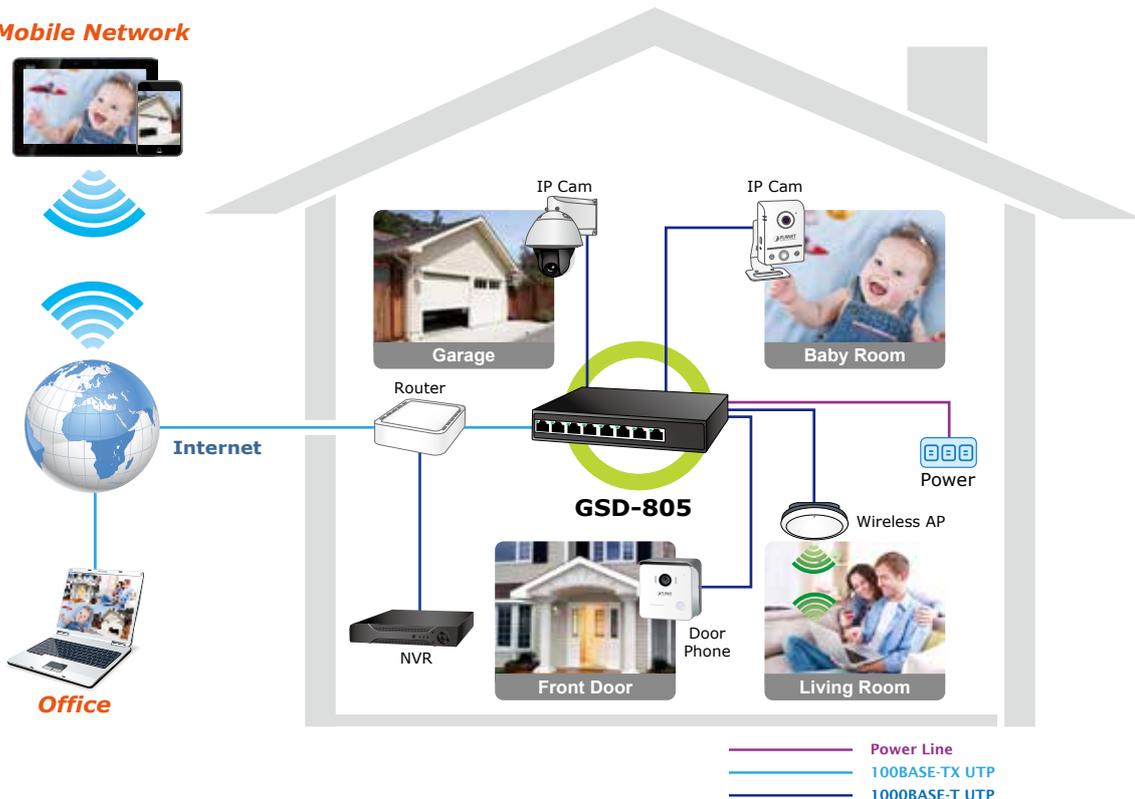
The GSD-805 can directly connect to department switches or backbone servers. With up to 16 Gigabit per second of non-blocking switch fabric, the GSD-805 can be used to build a Gigabit high-bandwidth switched network quickly and easily.



### 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	
<b>Hardware Specifications</b>		
Network Connector	8-Port RJ45 for 10/100/1000BASE-T, auto MDI/MDIX	
LED Display	<b>System:</b> Power (Green) <b>Per port:</b> 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 $\pm 1.5KV$ Common mode $\pm 2KV$	
Electrostatic Standard	$\pm 2KV$	
Weight	428g	
<b>Standard Conformance</b>		
EMI Safety	FCC Class B, CE	
Standard Compliance	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3az IEEE 802.3x	Ethernet Fast Ethernet Gigabit Ethernet Energy-Efficient Ethernet Flow Control
<b>Environment</b>		
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