

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



Optimal Solution for Energy Savings and Gigabit High Performance

PLANET GSD-503 Green Networking Switch is specially designed to meet the current trend for energy savings worldwide. The GSD-503, a 5-port Gigabit Ethernet Switch, brings both benefits of energy savings and Gigabit wire speed performance to home networking, SOHOs and enterprises.

Energy Savings

The GSD-503 incorporates two advanced Green Networking technologies and is able to provide power savings of up to 40% but maintains high performance efficiently.

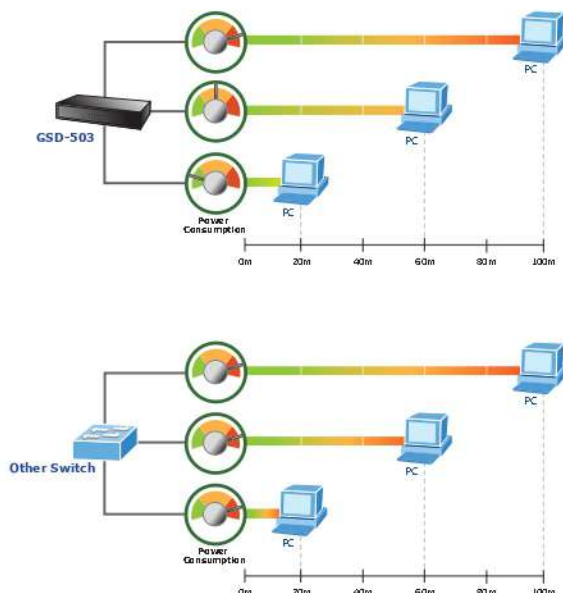
(1) Hibernation Link Down power saving

The Hibernation Link Down power saving goes beyond IEEE specifications to automatically lower power for a given port when it is not linked. With the Hibernation Link Down power saving technology, the GSD-503 will automatically adjust power usage of the ports that are shut down or not connected to network device.

(2) Intelligent use of power based on cable length

Intelligent use of power uses an intelligent algorithm that actively determines the appropriate power level based on cable length. When the GSD-503 is connected with Ethernet cable shorter than 20m, a device can obtain maximum power savings because the GSD-503 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 savings.

Intelligent Power Savings



RJ45 Interface

- 5 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, half/full duplex and 1000Mbps 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 2K absolute MAC addresses
- 9K Jumbo packet size
- Power saving ability for Green networking
- Automatic address learning and address aging
- Supports CSMA/CD protocol

Hardware

- Made of metal, desktop size and wall-mount design
- LED indicators for system power, per port 1000 & Link / Act
- 5V DC, 1A external power adapter
- One Power on/off button for energy saving
- FCC, CE Class B compliant

Power Saving **40%**



*Full Port link/Cable length < 20m

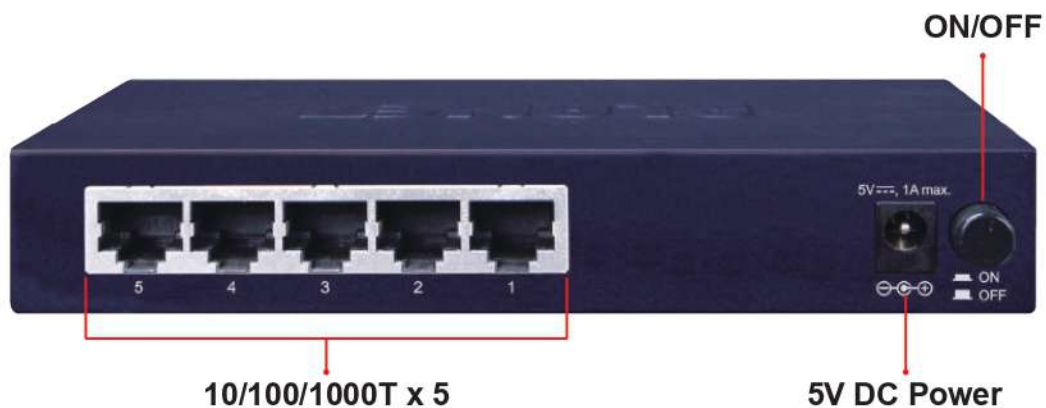
**Save
22,776 Watts
yearly**

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

The GSD-503 is designed with modern metal compact housing and easy for deployment of high speed Gigabit networking in home or SOHO applications. Providing 10Gbps internal switching fabric, the GSD-503 can handle an extremely large amount of data in a secure topology linking to a backbone or high capacity servers. The GSD-503 provides 2K MAC address table, and offers wire-speed packet transfer performance without risk of packet loss. The high data throughput of the device makes it ideal for most Gigabit environments, especially for the network to be upgraded to a Gigabit environment.

Plug & Play

All RJ45 copper interfaces of the GSD-503 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.



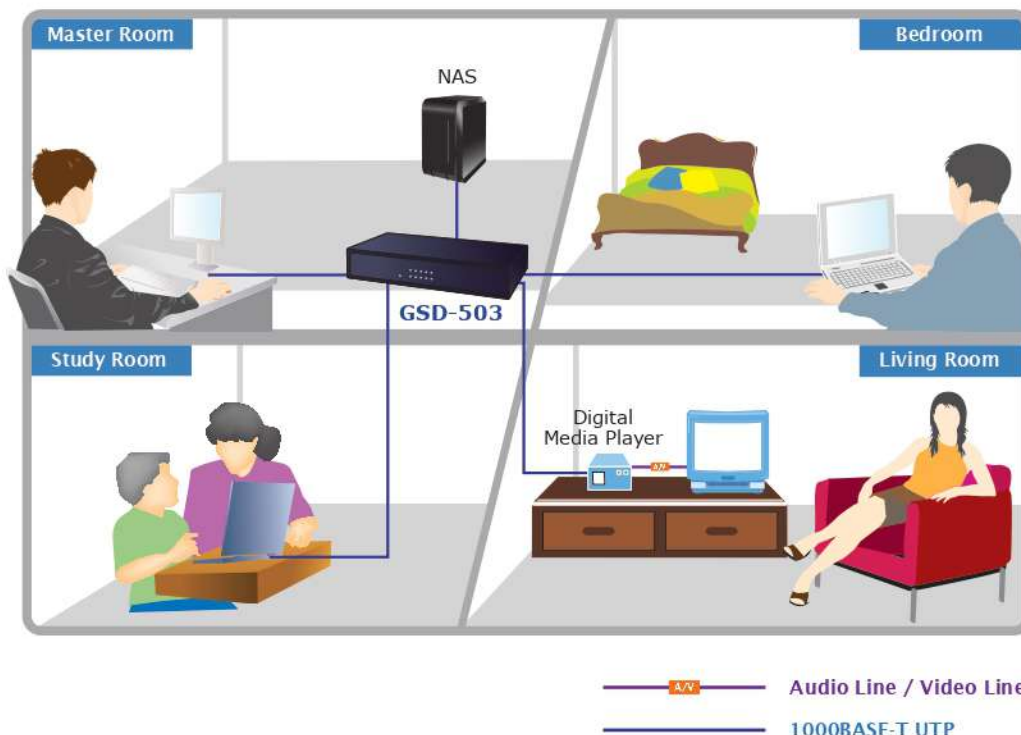
Applications

Backbone Switch

The GSD-503 can directly connect to department Switches or backbone servers. With up to 10Gbps of non-blocking switch fabric, the GSD-503 can be used to build a Gigabit high-bandwidth switched network quickly and easily.

Home/SOHO High-speed Network Center

The GSD-503 Gigabit Ethernet Switch provides the best solution of high-speed Internet environment demanded by SOHO / Home and Power users. The GSD-503 accelerates the speed of data transmission between devices without worrying about the delay of high quality multimedia display. As for home use, the GSD-503 integrates the speeds of 10, 100 and 1000Mbps which can fulfill your demands for transmitting high quality multimedia, games and other high-speed Internet applications.



Specifications

Product	GSD-503
Hardware Specifications	
Hardware Version	8
10/100/1000BASE-T Ports	5 Auto MDI/MDIX ports
LED Display	One for Power, Two for 1000 & Link / Act per port
Enclosure	Metal
Dimensions (W x D x H)	155 x 86 x 26mm
Weight (g)	317g
Power Requirements (External power adapter)	5V DC, 1A
Power Consumption/Dissipation	3.3 watts/11 BTU
Switch Specifications	
Switch Processing Scheme	Store-and-Forward
Address Table	2K
Flow Control	Back pressure half duplex, IEEE 802.3x pause frame full duplex
Switch Fabric	10Gbps
Throughput (packet per second)	7.44Mpps
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) IEEE 802.3az Energy Efficient Ethernet (EEE)
Regulatory Compliance	FCC Part 15 Class B, CE
Environments	
Temperature	Operating: 0~50 degrees C Storage: -10~70 degrees C
Humidity	Operating: 5% to 95%, Storage: 5% to 95% (non-condensing)

Ordering Information

GSD-503	5-Port 10/100/1000BASE-T Gigabit Ethernet Switch (Metal case)
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Related Products

GSD-504	5-Port 10/100/1000BASE-T Gigabit Ethernet Switch (Plastic case)
GSD-803	8-Port 10/100/1000 BASE-T Gigabit Ethernet Switch (Metal case)
GSD-804	8-Port 10/100/1000 BASE-T Gigabit Ethernet Switch (Plastic case)

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GSD-503