16-Port Gigabit Switch

GSW-1603

H/W Version: 2

Total Gigabit Ethernet Solution

LevelOne's GSW-1603 Gigabit switch provides 16 Gigabit ports for lightning fast data transfer across your network. Transfer large files in seconds for a notable improvement in work productivity and efficiency. The store-and-forward architecture filters errors and forwards packets in a non-blocking environment. Flow control ensures accurate data transmission and the 802.3x and backpressure flow control mechanisms provide flexibility for full and half duplex modes.

Save Power With LevelOne Green Technology

Active Link Detection: A LevelOne Green device can tell if there is activity on each individual LAN port. If a 16-port switch only has 10 active devices connected to it, power is saved because no traffic is routed to the 6 inactive ports.

Cable Length Detection: The switch is able to detect the distance of the connected device and adjusts its power accordingly. For example, if you have a LevelOne Green switch a computer connected to a 10-meter cable will consume less power than a computer connected to a 100-meter cable.

Sleep Mode: The device will enter sleep/standby mode when the connected devices are powered down and no active links are detected. This helps save energy consumption during extended periods of network inactivity, such as nights, weekends and holidays.

1
2
3

1. LEDs
2. 10/100/1000 Mbps
3. External power socket

Key Features

- 16-Port Gigabit Switch for high-performance office networks
- Complies with IEEE 802.3ab,802.3u and 802.3 standards
- Supports Auto-negotiation and Auto-MDI/MDI-X
- Supports 9K Jumbo frame rate
- Provides 8K MAC address entries
- Large 32G switching bandwidth
- External power supply
- 10-inch rack-mountable with included mounts
- Save up to 49% power compare to non Green Switch with similiar functions

Works well with

GNC-0105T
32-bit Gigabit Ethernet PCI Adapter

USB-0201
USB Gigabit Ethernet Adapter

Technical Specifications

Standard Compliance

Compliant

IEEE 802.3: 10BASE-T

IEEE 802.3u: 100BASE-TX

IEEE 802.ab: Gigabit Ethernet

IEEE 802.3x Flow Control for Full-Duplex

Network Interface

Ports

16 x 10/100/1000 Mbps RJ-45 ports

-Support auto MDI/MDI-X

-Support auto-negotiation

Switch Architecture

Back-plane: 32 Gbps

Packet Buffer

500K bytes

MAC Address Table

8K entries per device

Transfer Rate

14,880 pps for 10 Mbps

148,800 pps for 100 Mbps

1,488,000 pps for 1000 Mbps

Frame Rate

9K bytes Jumbo frame

Physical Specifications

Power Supply

100 ~ 240VAC / 50~60Hz External Power

Operating Temperature and Humidity

0°C to 40°C

10% to 90% (Non-condensing)

LED

Power

Link/Activity

Dimensions (L x W x H)

216mm x 133mm x 42 mm

Certification

FCC Class A, CE, VCCCI Class A

LevelOne Green

Power Consumption with 16 x 100 meters Cable Connected

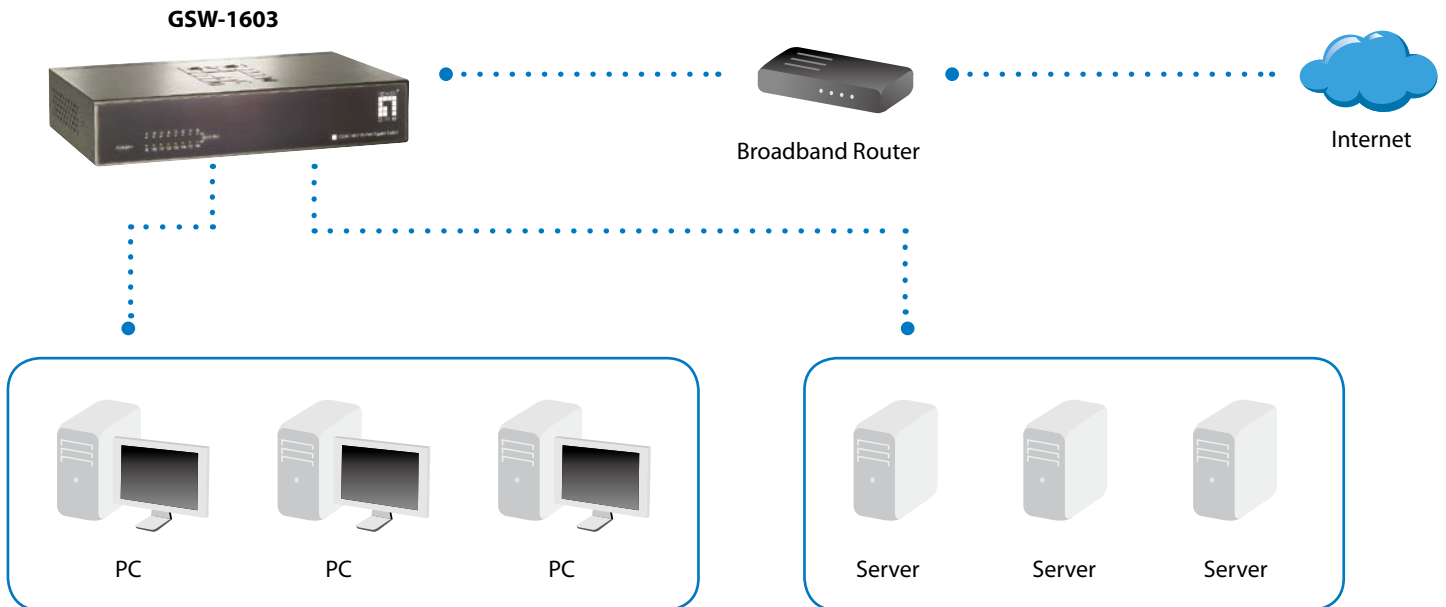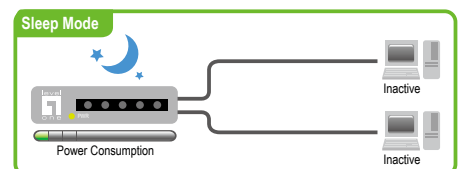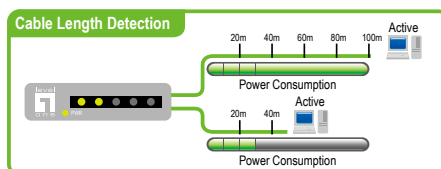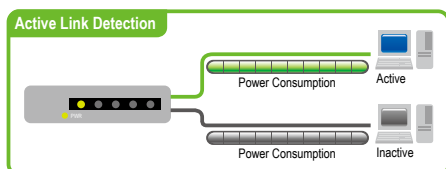12.36W

**GSW-1603 Base Power Consumption
(No Cables are Connected)**

2.88W

Product Diagram

GSW-1603

Broadband Router

Internet

PC   PC   PC

Server   Server   Server

Power Saving by

Active Link Detection

Power Consumption   Active

Power Consumption   Inactive

Cable Length Detection

20m 40m 60m 80m 100m   Active

Power Consumption
Active

20m 40m

Power Consumption

Sleep Mode

Power Consumption

Inactive

Inactive

Order Information	**GSW-1603:** 16-Port Gigabit Switch
Package Contents	GSW-1603 Gigabit Switch
	DC Power Adapter (12V, 3A)
	10 inch Rack-Mount Brackets
	User Manual