# ZyXEL

- Compact and stylish design
- Plug-and-play for easily connecting up to 5/8 network devices
- Gigabit Ethernet boosts speed up to 10 times faster than Fast Ethernet
- Automatically adjust the power consumption by detecting the link status and cable length
- Loop detection support for stable network connections

# Easy and Reliable Gigabit Network Expansion

## Benefits

### Compact and stylish design

The stylish, compact metal housing of GS-105B/GS-108B fits any working environment. The affordable and reliable series comes with 5/8 ports to meet network expansion needs.

### Gigabit Ethernet boosts speed up to 10/100 times faster

The ZyXEL GS-105B/GS-108B 10/100/1000 Mbps desktop switch is designed for reliable high-performance networks with speeds 10 times faster than Fast Ethernet connections. With the non-blocking switching fabric in full-duplex mode, the maximum speed can reach up to 2000 Mbps per port, while the store-and-forward service brings low latency and error-free packet delivering.

### Easy to connect multiple devices

GS-105B/GS-108B is a 5/8-Port desktop switch with plug-and-play capability. With the Nway auto-negotiation function, the GS-105B/GS-108B connects network counterparts with highest possible network speed and activates duplex mode automatically. You can easily connect networked devices such as PCs, network storages and print servers to the network without any manual configuration.

### Energy saving via link status and cable length detection

GS-105B/GS-108B compliant with IEEE 802.3az Energy Efficient Ethernet standard provides power-saving benefits without compromising performance. GS-105B/GS-108B automatically reduces power usage when it detects any shut down network device or inactive link. That is the power consumption of GS-105B/GS-108B adjusts according to the number of active network devices.

The GS-105B/GS-108B can also detect the length of connected Ethernet cables and adjust power usage accordingly. The shorter the Ethernet cable length, the less power it consumes.

**GS-105B**
**GS-108B**
**5/8-Port Desktop Gigabit Ethernet Switch**

Detect Cable Length   Adjust Power Usage

# ZyXEL

## GS-105B/GS-108B
### 5/8-Port Desktop Gigabit Ethernet Switch

## Specifications

### System Specifications

**Interface**

- GS-105B: 5 x RJ-45 Gigabit Ethernet ports
- GS-108B: 8 x RJ-45 Gigabit Ethernet ports

**Standard**

- IEEE 802.3 10 Base-T Ethernet
- IEEE 802.3u 100 Base-TX Fast Ethernet
- IEEE 802.3ab Gigabit Ethernet
- IEEE 802.3 Nway auto-negotiation
- IEEE 802.3x full duplex operation and flow control
- IEEE 802.1p QoS Priority
- IEEE 802.3az Energy Efficient Ethernet

**Performance**

- Data transfer rate (half duplex/full duplex):
  - Ethernet: 10/20 Mbps
  - Fast Ethernet: 100/200 Mbps
  - Gigabit Ethernet: 1000/2000 Mbps
- MAC address table:
  - GS-105B: 8K
  - GS-108B: 8K
- Memory buffer:
  - GS-105B: 128K
  - GS-108B: 128K
- Switching fabric (non-blocking):
  - GS-105B: 10 Gbps
  - GS-108B: 16 Gbps

### Features

- Auto-MDI/MDIX on all ports
- Transmission method:
  - Store-and-forward architecture
- Loop detection support

### Hardware Specifications

- LED Indicator
  - PWR: power
  - Per port: link/ activity
- Power supply: external switching power adapter
  - GS-105B:
    - Input: 100-240V AC
    - Output: 5V DC, 1A
  - GS-108B:
    - Input: 100-240V AC
    - Output: 5V DC, 1A
- Power consumption:
  - GS-105B: 2.33 Watt max
  - GS-108B: 3.17 Watt max

### Physical Specifications

**GS-105B**

- Item dimensions (WxDxH):
  121 x 75 x 26 mm (4.8" x 3.0" x 1.0")
- Item weight: 271g (0.60 lbs)

- Packing dimensions (WxDxH):
  127 x 82 x 95 mm (5.0" x 3.2" x 3.7")
- Packing weight: 398g (0.88 lbs)

**GS-108B**

- Item weight: 382g (0.84 lbs)
- Item dimensions (WxDxH):
  154.5 x 85 x 26 mm (6.1" x 3.3" x 1.0")
- Packing weight: 513g (1.13 lbs)
- Packing dimensions (WxDxH):
  161 x 90 x 95 mm (6.3" x 3.5" x 3.7")

### Environmental Specifications

- Operating environment:
  - Temperature: $0^{o}$C to $50^{o}$C ($32^{o}$F to $122^{o}$F)
  - Humidity: 10% to 95% (Non-condensing)
- Storage environment:
  - Temperature: $-40^{o}$C to $70^{o}$C ($-40^{o}$F to $158^{o}$F)
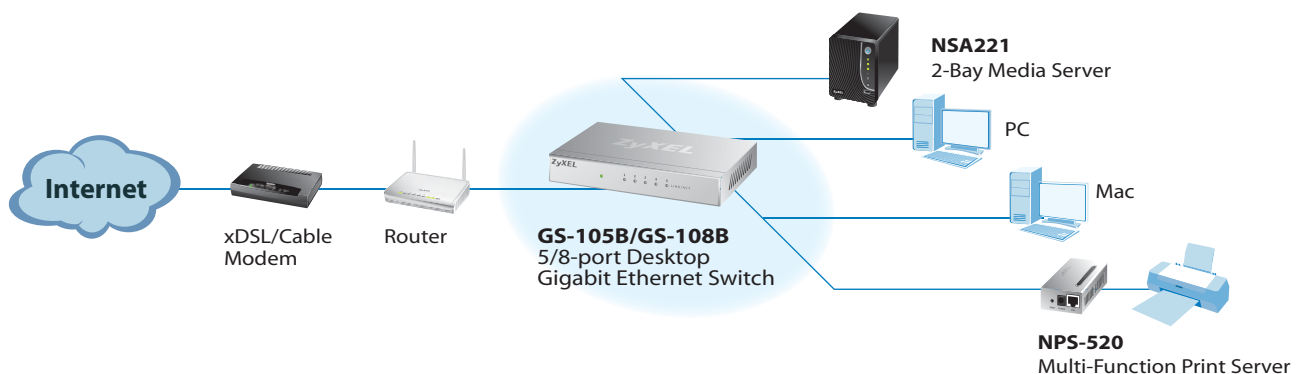  - Humidity: 10% ~ 95% (Non-condensing)

### Certification

- CE, FCC, C-Tick

### Package Contents

- Gigabit switch
- Power adapter
- User's guide
- Warranty card

## Application Diagram



- Internet
- xDSL/Cable Modem
- Router
- **GS-105B/GS-108B** 5/8-port Desktop Gigabit Ethernet Switch
- **NSA221** 2-Bay Media Server
- PC
- Mac
- **NPS-520** Multi-Function Print Server