



**GX1105N**  
**GX1108N**

## **Quick Start Guide**

# Introduction

Thank you for purchasing the ASUS GX1105N or GX1108N gigabit Switch! The GX1105N and GX1108N are desktop gigabit solutions which provide seamless integration for your gigabit and Fast Ethernet devices. The GX1105N and GX1108N also integrate an internal universal power supply for easy cable connection.

## Features

- 5 x 10/100/1000 Mbps RJ-45 ports (GX1105N)
- 8 x 10/100/1000 Mbps RJ-45 ports (GX1108N)
- Supports Auto-Negotiation for 10/100/1000Mbps
- Supports Auto-MDIX for each port
- Support Full/Half duplex transfer mode for 10 and 100Mbps
- Support Full duplex transfer mode for 1000Mbps
- Full wire speed reception and transmission
- Jumbo Frame support
- 4K entry MAC address table with auto-learning and aging function
- Fan-less design for quiet operation environment
- IEEE 802.3x flow control for 10/100/1000Mbps full-duplex
- Back pressure flow control for 10/100Mbps half-duplex
- Desktop or wall mount placement options

Support VIP port: the port 1 has higher priority over other ports.

## Package contents

Before installing the GX1105N/ GX1108N switch, check your package for the following items.

- ASUS GX1105N or GX1108N Switch x 1
- Power cord x 1
- User guide x 1
- Mounting screws x 2



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**NOTE.** Contact your retailer if any of the items is damaged or missing.

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# Technical specifications

<b>Data Transfer Rates</b>	10Mbps, 100Mbps and 1000Mbps
<b>LAN Port</b>	5/8 * 10/100/1000 Mbps RJ-45 ports
<b>Protocol</b>	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX
	IEEE 802.3ab 1000Base-T
	IEEE 802.3x Full Duplex Flow Control
	Jumbo Frame Support
<b>Performance</b>	Bandwidth: 10 Gbps for 5-port, 16 Gbps for 8-port
	Forward Rate (10 Mbps port): 14,800 packets/sec
	Forward Rate (100 Mbps port): 148,000 packets/sec
	Forward Rate (1000 Mbps port): 1,488,000 packets/sec
	Packet Buffer Memory: 112KB for 5 port, 144KB for 8 port
	MAC Address Table: 4K
<b>Switching Method</b>	Store and Forward
<b>Form Factor</b>	Desktop placement, Wall mounting
<b>Environmental Specifications</b>	Operating Temperature: 0°C ~ 40°C ambient
	Humidity: 5 % ~ 95 % (non-condensing)
	Storage Temperature: -25°C ~ 70°C
<b>Status LEDs</b>	Power LED, Link, and Activity indicators for each port
<b>Dimension</b>	195.6 mm (W) x 150.8 mm (L) x 32 mm (H)
<b>Power Input</b>	100V~240V AC/50-60HZ
<b>Power Consumption</b>	8.58W
<b>Safety &amp; EMI</b>	CE, FCC, MIC, C-Tick, UL

# Hardware

## Front panel

The front panels of GX1105N and GX1108N include LED indicators that shows the working condition of the switch.

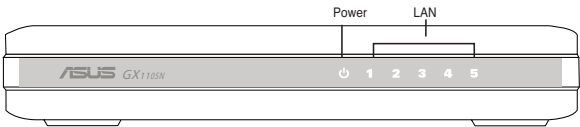


Figure 1. GX1105N front panel

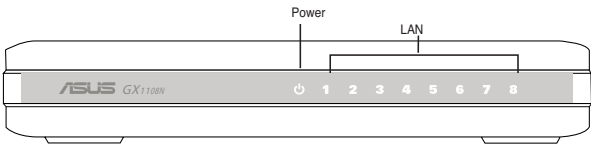


Figure 2. GX1108N front panel

Table 1 LED indicators

LED	Color	Status	Description
Power	Green	ON	The switch is powered ON
		OFF	The switch is powered OFF
LAN	Green	ON	Link established at 1000Mbps
		Flashing	Transmitting data at 1000Mbps
	Amber	ON	Link established at 10/100Mbps
		Flashing	Transmitting data at 10/100Mbps
		OFF	No device connected

## Rear panel

The rear panel of GX1105N and GX1108N contains five or eight RJ-45 Ethernet ports and a power connector.

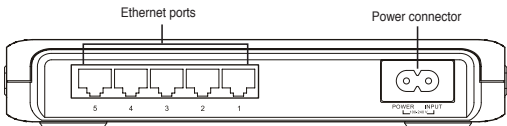


Figure 3. GX1105N rear panel

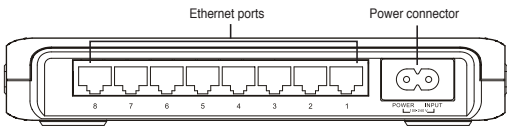


Figure 4. GX1108N rear panel

# Placement options

## Desktop placement

Place the GX1105N/ GX1108N switch on a flat and stable surface. Make sure that the location meets the operating environment specification. See page 3 for details.



**NOTE:** The length of the UTP Category 5 cable length cannot exceed 100 meters (328 feet).

## Wall mounting

You can mount the GX1105N/ GX1108N switch on a wall with the supplied mounting screws.

To mount the switch on a wall:

1. Measure the distance between the two hooks on the bottom of the switch.
2. Mark the screw position on the wall with the same distance in between.
3. Secure the supplied screws on the wall until only 1/4 is showing.
4. Latch the hooks of the GX1105N/ GX1108N onto the screws.

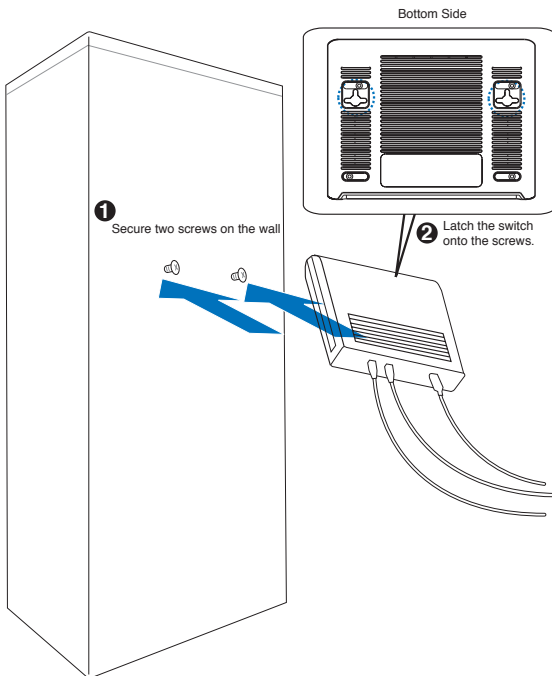


Figure 5. Wall-mount installation

# Connecting network devices

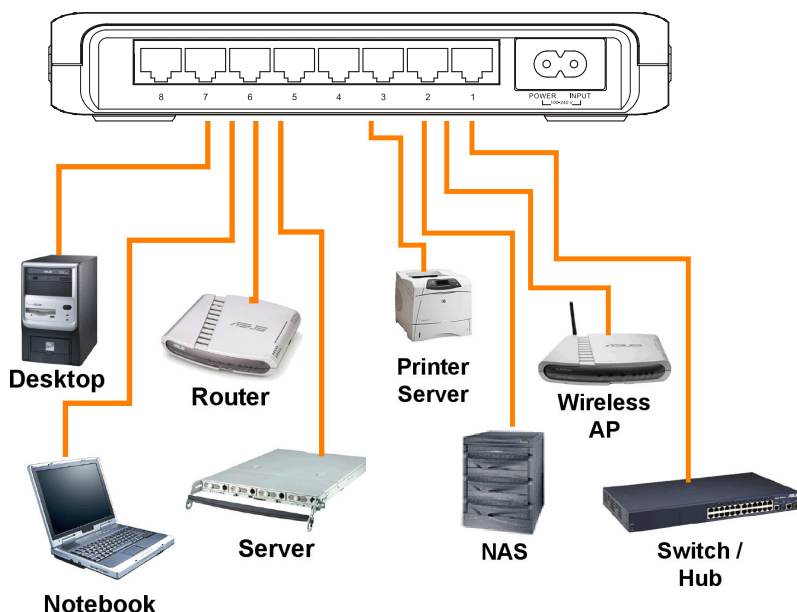
To connect network devices to the GX1105N or GX1108N switch:

1. Connect one end of the Ethernet cable to an Ethernet port on the switch rear panel. Connect the other end to the Ethernet port of the network device. Repeat this step to connect additional network devices.



## NOTES

- Use Category 5 straight-through Ethernet cables for wiring so as to ensure connection speed between the switch and the network devices.
- You can use either crossover or straight-through cable to connect other network devices such as bridges, switches, hubs and PCs.



2. Plug one end of the power cable to the power connector on the switch rear panel, then plug the other end to a power outlet.
3. The Power LED indicator and the LAN LED indicators of active Ethernet ports light up when the switch is powered on and active nodes are connected to the LAN ports. Refer to the front panel illustrations and LED table in page 4 for the meaning of LED indicators.

## Troubleshooting

This section provides solutions to some common problems which you may encounter when installing or using the ASUS GX1105N or GX1108N switch. Contact the ASUS technical support if problem still exists after you have performed the troubleshooting solutions.

Problem	Solution
<b>The POWER LED does not light up.</b>	Check if the power cable is properly connected to the switch and to an power outlet.
<b>The LAN LED does not light up even after a network device is connected to the port</b>	<ul style="list-style-type: none"><li>• Check if the Ethernet cable is properly connected to the switch and to the network device.</li><li>• Make sure the switch and your network device are powered ON.</li><li>• Check if the Ethernet cable meet your network requirements. To connect gigabit switch port, you need Category 5 cable to get gigabit transfer speed.</li></ul>

## Glossary

<b>10BASE-T</b>	10 Mbps Ethernet over twisted pair cable (Category 3).
<b>100BASE-T</b>	100 Mbps Ethernet over twisted pair cable (Category 5)
<b>1000BASE-T</b>	1000 Mbps Ethernet over twisted pair cable (Category 5)
<b>Ethernet</b>	The most commonly installed computer network technology, usually using twisted pair wiring. Ethernet data rates are 10 Mbps, 100 Mbps, and 1000 Mbps.
<b>Mbps</b>	Abbreviation for Megabits per second, or one million bits per second. Network data rates are often expressed in Mbps.
<b>network</b>	A group of computers that are connected together to communicate with each other and share resources, such as software, files, etc. A network can be small, such as a LAN, or very large, such as the Internet.