

GEU-0520

5-Port Gigabit Switch

GEU-0820

8-Port Gigabit Switch

QIG Manual

V1.0-100900

FCC Certifications

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE Mark Warning

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This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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Introduction

GEU-0520 and GEU-0820 are members of LevelOne Unmanaged Switch 2 series which are powerful, high-performance Gigabit Ethernet switches. With 5 or 8 ports capable of 10/100/1000 Mbps auto-negotiation operation (NWay), the switch could automatically negotiate with the connected partners on the network speed and duplex mode. It is ideal for micro-segmenting large networks into smaller, connected subnets for improved performance, enabling the bandwidth demanding multimedia and imaging applications. Moreover, the 10/100/1000Mbps auto-sensing ability provides an easy way to migrate 10/100Mbps to 1000Mbps network. Compared to the shared 10Mbps or 100Mbps networks, the switch delivers a dedicated 10/100/1000Mbps connection to every attached client without bandwidth congestion issue. This switch also supports auto MDI/ MDI-X function. Each port could be used to connect to another switch or hub without crossover RJ-45 cable.

Store-and-forward switching mode promises the low latency plus eliminates all the network errors, including runt and CRC error packets. To work under full-duplex mode, transmission and reception of the frames can occur simultaneously without causing collisions as well as double the network bandwidth. Moreover, Pre-IEEE 802.3az Energy Efficient Ethernet is supported to save power consumption

GEU-0520 and GEU-0820 are plug and play without any software to configure and also fully compliant with all kinds of network protocols.

Quick Installation Guide

This section provides unpacking and setup information for the Switch.

Unpacking

Open the shipping carton and carefully unpack its contents. The carton should contain the following items:

- One GEU-0520, or GEU-0820 Gigabit Ethernet Switch
- Four rubber feet with adhesive backing
- Wall-mount Kit
- One external power adapter
- QIG Manual

If any item is found missing or damaged, contact your local dealer for a service.

Installation

The site where you install the Switch stack may affect its performance. Use the following guidelines when installing the switch:

- Install the Switch in a cool and dry place. See specifications for the acceptable temperature and humidity operating ranges.
- Install the Switch in a site free from strong electromagnetic field generators (such as motors), vibration, dust, and direct exposure to sunlight.
- Leave at least 10 cm of space at the front and rear of the hub for ventilation.
- Install the Switch on a sturdy, level surface that can support its weight. When installing the Switch on a level surface, attach the rubber feet to the bottom of each device. The rubber feet cushion the hub and protect the hub case from scratching.

Wall Mounting

Before you begin, you need 2 wallboard screws to mount the unmanaged switch.

To mount the unmanaged switch to the wall:

- 1. Determine where you want to mount the unmanaged switch. Verify that the surface is smooth, flat, dry, and sturdy.
- 2. Drill two pilot holes into the wall surface. The wall-mount slots are two crisscross slots on the bottom panel of the unmanaged switch.
- Insert a screw into each hole, leaving a gap between the surface and the base of the screw head of at least 0.1 inches (3 mm).
- 4. Place the unmanaged switch wall-mount slots over the screws and slide the unmanaged switch down until the screws fit snugly into the wall-mount slots.
- Connect the unmanaged switch to the other devices, as described in the "Connecting the Equipment" section.

Flat Surface Installation

To deploy the device on a desktop or other flat surface:

- 1. Place the unmanaged switch on a desktop near an AC power source.
- Connect the unmanaged switch to the other devices, as described in the "Connecting the Equipment" section.

Connecting the Equipment

This section describes the process for connecting the device to the network.

1. Power down all of the devices you want to connect to the switch.

2. Connect the Ethernet cable to the Ethernet port of a PC, printer, network storage, or other network device.

NOTE We recommend using Cat5e or better cable. Also, do not exceed the maximum cabling distance of 328 feet (100 meters) per segment.

For cable selection, refer to the following table:

Network Speed	Cable Type	Max. Length
10Mbps	Cat. 3, 4, 5 UTP/STP	100 meters
100Mbps	Cat. 5 UTP/STP	100 meters
1000Mbps	Category 5e, 6 UTP/STP	100 meters

- Connect the other end of the network Ethernet cable to one of the numbered unmanaged switch Ethernet ports.
- 4. Repeat Step 2 and Step 3 for each device you want to connect to the unmanaged switch.

CAUTION Make sure you use the power adapter included with the switch. Using a different power adapter might damage the switch.

- 5. Connect the power adapter to the power port on the back panel of the unmanaged switch.
- 6. Power up the devices connected to the switch.

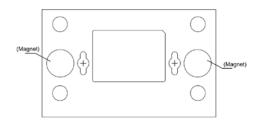
Magnet Mounting

This model support magnet mounting

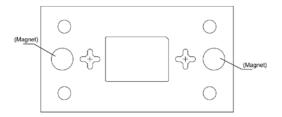
Introduction to magnetic mounting parts

There are two permanent magnets in the bottom of switch, as shown in below figures.

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Installation procedure

Attach the magnet-mounted device to the specified location. Take care not to get your fingers stuck between because the magnetism is very huge.

CAUTION

- Select the installation location carefully. In the case of poor surface, magnet mounting may not be reliable.
- Put the device at a stable place free from vibrations or shocks. Otherwise, personal injuries or equipment damage may occur.
- Avoid installing the device at a high place because personal injuries or equipment damage may occur in case of a falloff.
- Avoid frequently moving the desk-mounted device because such movements may damage the surface coating.
- Keep the front panel of the device facing upwards and the two sides with ventilation holes vertical to the ground, if you want to install the device vertically.
- Pay attention that the weight of external cables should not bring about a falloff, which may result in personal injuries or equipment damage.
- Keep floppy disks and magnetic cards away from magnets to avoid erasure of any information.
- Keep computers and monitors that are easily influenced by magnetic fields away from magnets. Otherwise, faults may occur to these electronic devices.

Power On

Plug one end of theca power adapter into the power connector on the switch and the other end into the local power source outlet.

After the switch is turned on, the LED indicators will momentarily blink, showing a reset of the system.

Power failure

If a power failure occurs, unplug the switch. When power is resumed, plug the switch back in.

Key Features

- Complies with 10BASE-T specifications of the IEEE802.3 standard
- Complies with 100BASE-TX specifications of the IEEE802.3u standard
- Complies with 1000BASE-T specifications of the IEEE802.3ab standard
- 5 or 8* 10/100/1000Mbps RJ-45 Nway ports
- Supports MDI/MDI-X auto crossover
- Supports full and half duplex operation on all ports
- Supports back-pressure (half duplex) and full duplex flow control (IEEE 802.3x)
- Wire-speed packet filtering and forwarding rate
- Store-and-forward architecture filters fragment & CRC error packets
- Supports extensive LED indicators for network diagnostics
- Supports IEEE 802.3az
- Supports IEEE 802.1p QoS

LEDs Definition

The switch contains one power LED for the device, Link/Act LED for each port that shows the activities and information of the ports.

Please refer to the following table for LEDs definition:

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LED	Status	Operation	
Power	Steady Green	The switch is powered on	
	Off	The switch is powered off	
Link/ ACT	Steady Green	Valid port connection	
	DI: I: G	Valid port connection and there	
	Blinking Green	is data transmitting/ receiving	
	Off	Port disconnected	

Product Specifications

1 Todact Specifications		
Standard	IEEE802.3 10BASE-T	
	IEEE802.3u 100BASE-TX	
	IEEE802.3ab 1000BASE-T	
	IEEE802.3x full duplex flow control	
	IEEE802.3az	
Interface	5 or 8* 10/100/1000 Mbps RJ-45 ports	
Network	10/100/1000 Mbps Auto-negotiation	
Data Rate		
Transmission Mode	10/100Mbps: Full-duplex, Half-duplex	
	1000Mbps: Full-duplex	
Buffer Memory	128K bytes	
MAC Address Table	8К	
Jumbo Frame	9K bytes	
Temperature	Operating:	
	0°C ~ 40°C (32°F ~104°F)	
	Storage:	
	-10°C ~ 70°C (14°F ~158°F)(Metal)	
	Operating:	
I I	10% ~ 90% RH, non-condensing	
Humidity	Storage:	
	5%~90% RH, non-condensing	
LED Indications	System: Power	
	Ports: Link/Act	
Power Supply	External power adapter 5V/1A	
Dimensions	GEU-0520: 121*75*26mm	
	GEU-0820: 154.5*85*26mm	
Emission	FCC, CE, VCCI Class A	