

# LM-3005GR/LM-3008GR

5/8/16/24 Port

10/100/1000Mbps Fast

Ethernet Switch User Manual

## Package Contents

The following items should be found in your package:

- 5/8/16/24 Port Desk-top & Rack-mountable Giga Ethernet Switch
- Power Adapter
- Quick Installation Guide
- Rack-mount Bracket
- Screw

Make sure that the packets contains above items. If any of the above items is missing or damaged, please contact your distributor.

## 1. Introduction

Thank you for choosing the 5/8/16/24 Port Desk-top & Rack-mountable Giga Ethernet Switch.

### 1.1. Product Overview

The 5/8/16/24 Port Desk-top & Rack-mountable Giga Ethernet Switch provides non-blocking, wire speed switching for your 10,100, and 1000 megabit network clients. Drop this switch in place of your current work group hub or switch, and you can upgrade your high-requirement workstations to full Gigabit speeds as necessary, while continuing to service other clients at their current speeds, or build your network from the ground up, with appropriate link speeds for each user's requirements. Either way, it's perfect for graphics projects, multimedia, and other applications that need to move larger files across the network quickly. With the 5/8/16/24 Port Desk-top & Rack-mountable Giga Ethernet Switch, you can connect your existing 10/100 Ethernet network to a Gigabit server backbone without any additional equipment. All ports have automatic MDI/MDIX detection, so installation is worry free. Each port independently and automatically negotiates for best speed and whether to run in half or full-duplex mode.

#### Main features

- Compliant with the IEEE802.3 10Base-T ethernet , IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T specifications
- 32/48Gbps switching fabric capacity
- 5/8/16/24port 10/100/1000Mbps TX Auto-Negotiation Ethernet Switch
- Full/Half-Duplex capability on each TX port (only support full duplex In 1000M)
- IEEE 802.3x standard flow control for Full- duplex, optional Back Pressure function for

#### Half-duplex operation

- Supports TP interface Auto MDIX function for auto TX/RX swap
- Support 8k MAC address table
- LED indicators for simple diagnostics and management
- Plug and Play

### 1.3. Standards

IEEE 802.3 10Base -T  
IEEE 802.3u 100Base -TX  
IEEE 802.3ab 1000Base -T  
IEEE 802.3x Flow Control

#### 1.4. Working environment

##### Temperature

0° to 40°C (operating)  
-20° to 70°C (storage)

##### Humidity

10% to 85% non-condensing (operating)  
5% to 90% non-condensing (storage)

##### Power

100 -240VAC, 50 -60Hz

The LED indicators include Power, Link/Act LED indicators, which are used for monitoring and pre-troubleshooting of the switch. The following section shows the LED indicators of the Switch along with an explanation of each indicator.

- **POWER LED** :This indicator will light solid green when the Switch powers up .If the LED is not lit, please check the power supply and connection.
- **100Mbps Link/Act LED**: The LED indicates Link/Active status. The corresponding LED indicator will light solid green when connected to a network device.It flashes green when data is being transmitted or received on the working connection.
- **1000Mbps LED**: The corresponding port LED indicator will light solid green when it's working on 1000Mbps speed, 10/100Mbps LED status is flashing green .

#### 1.8.Hardware Installation

##### 1.9. Before installation

- The setup of the Switch can be performed using the following steps: install the 5/8/16/24 Port Desk-top & Rack-mountable Giga Ethernet Switch in a fairly cool and dry place. See Working environment for the acceptable operation temperature and humidity ranges.
- Install the Switch in a site free from strong electromagnetic source, vibration,dust,and direct sunlight.
- Leave at least 10cm of space at the left and right hand side of the Switch for ventilation.
- Visually inspect the AC power jack and make sure that it is fully secured to the power adapter.

##### 2.0. Installation

- **Desktop or Shelf Installation**

When installing the Switch on a desktop or shelf ,the rubber feet included with the device must be first attached. Attach these cushioning feet on the bottom at each corner of the device.Allow enough ventilation space between the device and the objects around it.

- **Rack Installation**

The Switch can be mounted in an EIA standard size, which can be placed in a wiring closet with

other equipment. To install, attach the mounting brackets on the switch's front panel(one on each side) and secure them with the screws provided. Then ,use the screws provided with the equipment rack to mount the Switch in the rack.

### 3. Troubleshooting

The Power LED is not lit

Check if the AC power cord is well connected. Try to unplug and plug back in the power cord to the switch or try another power outlet.

The Link LED is not lit

Make sure the network configuration of connecting device is correct, and network card and driver are installed correctly.

Check the cable connections.

Make sure the cable distance between the switch and other IEEE802.3 compatible network device does not exceed 100 meters.

Performance is bad

Check the status of Ethernet switching. If Ethernet switching is set to full-duplex on one device but a partner is set to half-duplex, then performance will be poor.

Make sure the cable between the switch and other IEEE802.3 compatible network device is Category 5UPT or better.

Some devices can't talk to other devices on the network

Check status of the Link LEDs to make sure devices are linked.

Make sure that the devices' network configurations are correct.

Reset the switch if needed.