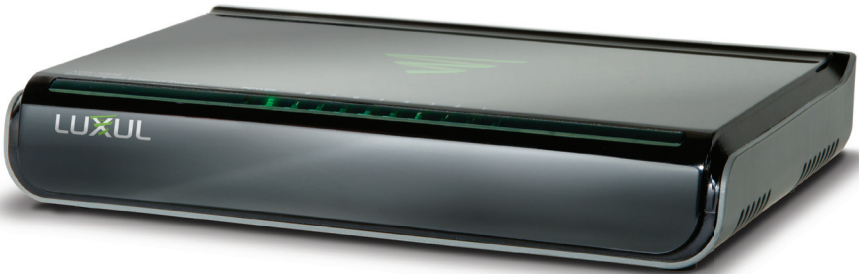


User Guide

XGS-1008

8-Port Gigabit Ethernet Switch



Use the XGS-1008 to:

- ▶ Expand Your Home or Office Network with 8-Ports
- ▶ Future Proof Your Network with Gigabit Speeds (10X Performance of Fast Ethernet)
- ▶ Create a VLAN for Optimizing VoIP, Video, Security, or Gaming Applications (requires XMS-1024)

8-PORT GIGABIT ETHERNET SWITCH

MODEL NUMBER: XGS-1008

USER GUIDE

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DOCUMENT CONVENTIONS

The following graphical alerts are used in this document to indicate notable situations:



NOTE: Tips, hints, or special requirements that you should take note of.



CAUTION: Care is required. Disregarding a caution can result in data loss or equipment malfunction.



WARNING! Indicates a condition or procedure that could result in personal injury or equipment damage.

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1: PRODUCT OVERVIEW

1.1 Product Introduction

The XGS-1008 8-Port Desktop Gigabit Ethernet Switch is especially suited to home and small-business networking. It provides eight 10/100/1000Mbps ports with Auto-negotiation and Auto MDI/MDIX capability. All ports can be used for ordinary network traffic as well as for uplinks to connect with other networking devices (i.e. routers, switches, etc.). The XGS-1008 provides 10X the performance of a standard 10/100Mbps switch and can be a simple upgrade replacement for resolving performance bottleneck issues associated with the use of legacy Ethernet switch hardware. Each port within the XGS-1008 can deliver up to 2000Mbps in full-duplex mode, making it an excellent choice of improving performance between devices on the local network. With easy plug-and-play setup and no network management you will benefit from a seamless installation, whether you are setting up a new network or upgrading from a legacy 10/100 switch.

1.2 XGS-1008 Features

- ▶ Compliance with IEEE802.3, IEEE802.3u and IEEE802.3ab Ethernet standards, supporting 10/100/1000 transfer modes.
- ▶ Auto MDI/MDIX on each port
- ▶ NWAY Auto-Negotiation functionality
- ▶ Eight 10/100/1000Mbps RJ-45 ports
- ▶ IEEE802.3x flow control for full-duplex and Backpressure flow control for half-duplex
- ▶ 16Gbps backplane bandwidth and non-blocking wire speed forwarding
- ▶ Store-and-forward switching method
- ▶ 8kb MAC address table and MAC address auto-learning/auto-aging
- ▶ “Plug and Play” Compatibility
- ▶ Small footprint desktop design

1.3 Product Specifications

Supported Protocols and Standards	<ul style="list-style-type: none"> ▶ IEEE 802.3 10Base-T Ethernet ▶ IEEE 802.3u 100Base-TX Fast Ethernet ▶ IEEE 802.3ab 1000Base-T Gigabit Ethernet ▶ IEEE 802.3 NWay Auto-negotiation ▶ IEEE 802.3x Flow Control ▶ CSMA/CD ▶ HTTP ▶ ARP ▶ DNS ▶ ICMP ▶ TCP/IP
Features	<ul style="list-style-type: none"> ▶ Number of Ports: Eight 10/100/1000BASE-T ▶ MAC Address Table: 8K ▶ Switch Fabric: 16Gbps ▶ Transmission Method: Store-and-forward ▶ Auto uplink (MDI/MDI-X) detection and configuration ▶ MAC Address Learning /Auto-learning, Auto-aging
Packet Filtering/ Forwarding Rate	<ul style="list-style-type: none"> ▶ 14880pps (10Mbps) per port ▶ 148800pps (100Mbps) per port ▶ 1488000pps (1000Mbps) per port
Network Data Transfer Rate	<ul style="list-style-type: none"> ▶ Ethernet: 10Mbps (Half-duplex) ▶ Ethernet: 20Mbps (Full-duplex) ▶ Fast Ethernet: 100Mbps (Half-duplex) ▶ Fast Ethernet: 200Mbps (Full-duplex) ▶ Gigabit Ethernet: 1000Mbps (Half-duplex) ▶ Gigabit Ethernet: 2000Mbps (Full-duplex)
Interface Options	<ul style="list-style-type: none"> ▶ RJ-45: <ul style="list-style-type: none"> ▷ 10 Base-T: Cat.5 UTP /STP ▷ 100 Base-TX: Cat.5 UTP /STP ▷ 1000Base-T: Cat.5, Cat.5e or Cat.6 UTP/STP ▶ Cable Recognition for Straight-through or Crossover Cables
Certifications	FCC Class B, CE, RoHS
Led	<ul style="list-style-type: none"> ▶ Per unit: Power ▶ Per port: Link/Activity
DC Input	DC 9V 600mA
Power Consumption	10 Watts Maximum
Power Supply	External Power Adapter
Operating Temperature	32°F to 104°F (0°C to 40°C)

Operating Humidity	10% to 90% (Non-condensing)
Dimensions	W: 6.8" x D: 4.3" x H: 1.2" (W: 172.72mm x D:109.22mm x H: 30.5mm)
Weight	▶ Item: 4.5 lbs (2.1Kg) ▶ Packaging: 6 lbs (2.7Kg)

1.4 Package Contents

Please check the contents carefully after you open the packing:

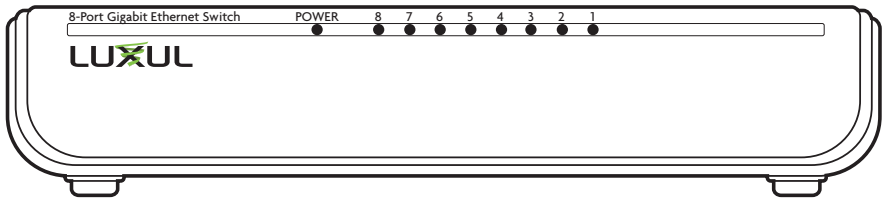
- ▶ XGS-1008 8-Port Gigabit Ethernet Switch
- ▶ Power Adapter
- ▶ Quick Install Guide

If any of the listed items are missing or damaged, please contact the reseller from whom you purchased the XGS-1008 for return/replacement.

2: HARDWARE DESCRIPTION

2.1 Front Panel

The front panel of the XGS-1008 includes 8 Link/Activity LED's and one power LED. Please refer to the detailed description of these indicators in Section 2.2 below.



XGS-1008 Front Panel View

2.2 LED Indicators

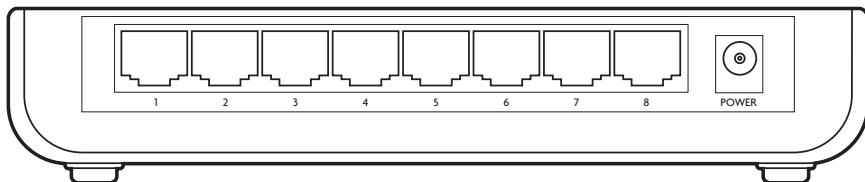
The LED indicators of the XGS-1008 include 1 Power indicator and 8 Link/Activity indicators. These LED indicators show the operating status of the XGS-1008 and each switch connection.

The following chart shows the LED indicators of the XGS-1008 along with an explanation of the indicator's properties:

LED	Color	Status	Description
Power	Green	ON	This indicator lights up when the XGS-1008 is powered
	—	OFF	If this indicator is not lit, please check the DC power supply to ensure proper connection to the outlet and the XGS-1008.
Link/ Activity	Green	ON	Indicates the XGS-1008 is connected at 1000Mbps.
		Blinking	Indicates the XGS-1008 is transmitting/receiving data packets at 1000Mbps.
	Orange	ON	Indicates the XGS-1008 is connected at 10/100Mbps.
		Blinking	Indicates the XGS-1008 is transmitting/receiving data packets at 10/100Mbps.
	—	OFF	Indicates the port is not connected to a device.

2.3 Rear Panel Layout

The Rear Panel of the XGS-1008 includes 8 10/100/1000Mbps RJ-45 Ethernet ports and one DC power port used for DC power input.



XGS-1008 Rear Panel View



CAUTION: Please use the included power supply. If a different power supply is used, it could damage the XGS-1008

3. PREPARING FOR INSTALLATION

3.1 System Requirements

- ▶ **Ethernet Cables** to connect the XGS-1008 to Ethernet enabled devices
- ▶ **Power** should be AC 100-240V- 0.1A(Max) 50/60Hz.

3.2 Installation Requirements

- ▶ Install the XGS-1008 in a stable/safe place to avoid any possible damage
- ▶ Inspect the AC power cord to ensure that it is correctly connected and undamaged
- ▶ To avoid electric shock, DO NOT open the XGS-1008 housing (no user serviceable parts inside). Opening the XGS-1008 will void your warranty.
- ▶ It is recommended that the Grounding connection to the outlet is functioning properly and the XGS-1008 is positioned away from direct sun light
- ▶ Ensure there is sufficient space around the XGS-1008 for proper ventilation and heat dissipation. It is recommended to have at least 4-6 inches around all sides.

3.3 Before Connecting to the Network

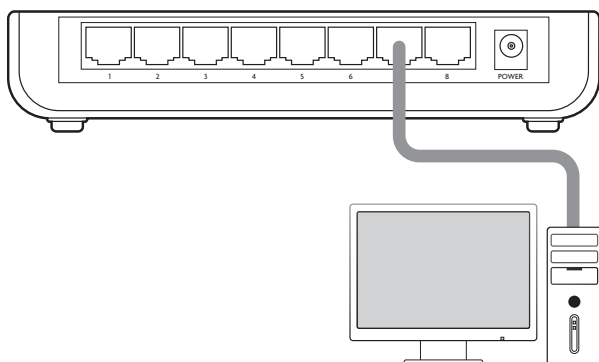
Before connecting the XGS-1008 to the network, please check the following:

- ▶ Determine placement location. Do not place any heavy articles on the XGS-1008.
- ▶ Ensure there is adequate space for proper heat dissipation and ventilation around the XGS-1008.
- ▶ Power socket should be within 4 feet of the XGS-1008.
- ▶ Check power adapter to confirm safe and secure connection.

4. XGS-1008 INSTALLATION

4.1 Connecting Devices

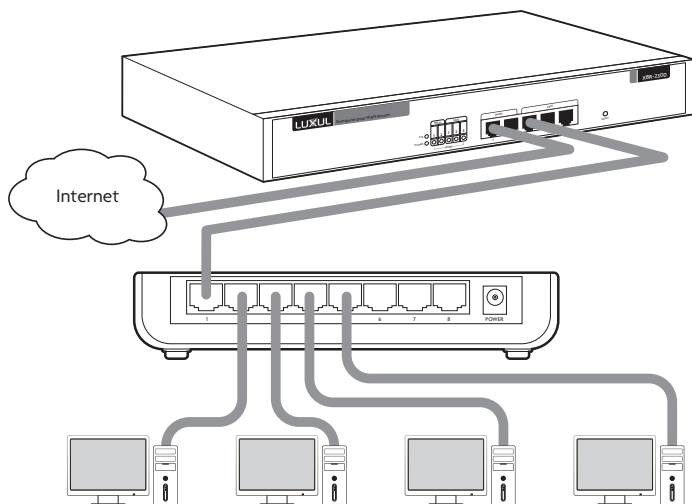
Use standard Ethernet CAT5, CAT5e or CAT6 cable to connect the XGS-1008 to a device as described below (CAT6 must be used in order to achieve full Gigabit bandwidth). The XGS-1008 will automatically adjust to the characteristics (speed/duplex) of the device to which it is connected.



Connecting the XGS-1008 to a Device

When a device is properly connected, the Link/Activity LEDs for each port lights up green/orange. Please refer to the LED Indicators section for definitions and troubleshooting.

4.2 Connecting to a Router or Other Switch



Connecting the XGS-1008 to a Router or Switch

When a device is properly connected, the Link/Activity LEDs for each port light up green/orange. Please refer to the LED Indicators section for definitions and troubleshooting.

5: REGULATORY COMPLIANCE

This device is approved under the Luxul brand and designed to comply for use specifically with other approved Luxul devices. This device is designed to be compliant with rules and regulations in locations where they are sold and will be labeled as required. Any changes or modifications to Luxul equipment, not expressly approved by Luxul, could void the user's authority to operate the equipment. This Luxul device when used in conjunction with the approved Luxul Models should be professionally installed and the Radio Frequency Output Power will not exceed the maximum allowable limit for those countries that have regulatory approval.

5.1 Health and Safety Recommendations

Warnings for the use of Wireless Devices: Please observe all warning notices with regard to the usage of wireless devices

Potentially Hazardous Atmospheres: You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).

Safety in Hospitals: Wireless devices transmit radio frequency energy and may affect medical electrical equipment. When installed adjacent to other equipment, it is advised to verify that the adjacent equipment is not adversely affected.

Power Supply: Use only a Luxul approved power supply output rated at 9VDC and minimum 0.6A. The power supply shall be Listed to UL/CSA 60950-1; and certified to IEC60950-1 and EN60950-1 with SELV outputs. The device can also be powered from a compliant POE source. Use of alternative power supply will invalidate any approval given to this device and may be dangerous.

5.2 FCC Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However; there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▶ Reorient or relocate the receiving antenna.
- ▶ Increase the separation between the equipment and receiver.
- ▶ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ▶ Consult the dealer or an experienced radio/TV technician for help.

6: CONTACT LUXUL

For sales questions
please contact our
Sales Department

P: (801) 822-5450

E: sales@luxul.com

If you experience any
problems, please contact
Technical Support

P: (801) 822-5450

E: support@luxul.com

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**LUX-UG-XGS-1008
073140345**

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