

LUXUL

Simply Connected

User Guide

XMS-1008P

Luxul Xen™

Gigabit Ethernet Smart POE Switch



Use the XMS-1008P to:

- ▶ Combine the Benefits of POE with Gigabit Technology (10X Performance of Fast Ethernet)
- ▶ Simplify POE Device Installation, While Enhancing Network Performance
- ▶ Provide Intuitive Network Management and Optimization Capabilities
- ▶ Optimize and Protect Your Network with Advanced VLAN, QoS and Network Security Features

luxul.com

GIGABIT ETHERNET SMART POE SWITCH

MODEL NUMBER: XMS-1008P

USER GUIDE

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DOCUMENT CONVENTIONS

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



TIP: Tips, Hints or Suggestions to improve performance or Installation.



NOTE: 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.

CONTACT LUXUL

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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

To check for firmware updates or download pre-configured application modules, visit luxul.com.

PACKAGE CONTENTS

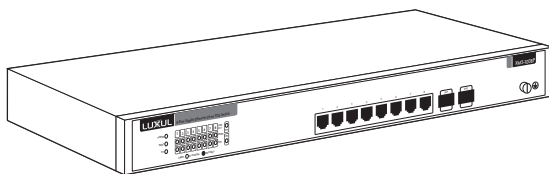
- ▶ XMS-1008P Gigabit Ethernet Smart POE Switch
- ▶ Power cable
- ▶ Two L-shape brackets and eight matched screws
- ▶ Four rubber footpads
- ▶ Quick Install Guide

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

HARDWARE DESCRIPTION

Front Panel

The front panel of the XMS-1008P switch includes 8 1000Mbps RJ45 and 2 SFP expansion ports on the right side and LED indicators on the left side. Each 1000Mbps port has one Link/Activity LED, one 1000Mbps LED and one POE LED, there are also two SFP LEDs, one Power LED, one System LED and a reset button.



XMS-1008P Front Panel

Status indicators

Each port has one Link/Activity LED, one 1000Mbps LED and one POE LED. In addition, there are two SFP LEDs, one Power LED, one System LED, as well as a Reset button to reboot the device or restore factory default settings. The green LED indicators show the working status of the switch. The following table describes the LED functionality:

Indicator Name	Description	
Power	On	Indicates that there is power to the XMS-1008P
	Off	If LED is off, check power connections and on/off switch at the back of the unit.
Link/Act	On	There is a device connected to the port.
	Flashing	A port is receiving or transmitting data.
	Off	There is nothing connected to the port.

Indicator Name	Description	
1000 Mbps	On	A device capable of 1000Mbps is connected to the port.
	Off	If a port has no device connected or it is not a 1000 Mbps capable device, the 1000 Mbps LED will be off.
POE	On	A POE enabled device is connected and being supplied power
	Off	No POE enabled device is connected or POE is not enabled on this port
SYS	On	Indicates that the XMS-1008P is running normally.
	Flashing	The XMS-1008P is restoring default settings.
	Off	The XMS-1008P is in startup and initialization process or is not on.

At startup, port LEDs will flash for 1 second as a self test.

Reset Button

The Reset button (Located at the lower left corner of the front panel) is used to clear the current settings of the switch and restore factory default settings.

How to Use the Reset Button

- ▶ **To Hard Reset the Switch:** With the XMS-1008P powered on, press the Reset button.



CAUTION: DO NOT hold the button as this will factory default the switch

- ▶ **To Restore the Default Settings:** With the XMS-1008P powered on, press and hold the Reset button until the status of the System LED shows the following: On – flashing – off. You can now release the Reset button, and the switch automatically restores the factory default settings. When the System LED comes on again, the XMS-1008P will be set to factory defaults.



CAUTION: Please note this will remove any configuration done to the switch prior to Reset.

Network Ports

- ▶ There are 8 10/100/1000Mbps RJ-45 ports (Ports 1-8), that support Auto MDI/MDIX.
- ▶ Two Gigabit SFP optical/copper module expansion ports with support for hot-swapping of the SFP modules.



NOTE: The SFP expansion ports cannot support optical connections until equipped with an SFP (Mini GBIC) optical module.



NOTE: When powering up, the port LEDs corresponding to the optical interface may take a moment to initialize. This is normal as the XMS-1008P does not detect the optical connection until after the initialization and startup of internal software systems are completed.



TIP: To extend your wired network connections beyond 300 feet, an optical connection will be required. Please contact your Luxul representative or go to our website to learn more about optical fiber, SFP optical modules and optical network installation.

Rear Panel

The rear panel provides an AC input socket and power on/off switch. Use the included power cable to connect the XMS-1008P to a surge protected outlet. The built-in high-performance switching power supply of the XMS-1008P supports an input range of: AC 100 V ~ 220V, 50 Hz ~ 60 HZ.

INSTALLATION PREPARATION

System and Environmental Requirements

- ▶ Network cables to connect the XMS-1008P to Ethernet enabled devices
- ▶ A computer supporting TCP/IP and equipped with a Web browser. Supported Web browser versions include Microsoft IE 7.0 and up, Safari 1.0 and up or Mozilla Firefox 1.0 and up. The Web browser is used to configure the XMS-1008P.
- ▶ Power must be AC 100V ~ 220V, 50Hz ~ 60Hz.
- ▶ Temperature of the operating environment should be: 32F-113F (0C-45C). Place the switch away from heat generating devices. For best performance and heat dissipation/ventilation, make sure there is adequate space around the switch.
- ▶ Humidity of the operating environment should be: 5%-95% non-condensing. Do not place the switch in an extremely dirty or damp location.
- ▶ Keep the switch away from strong electromagnetic fields (i.e. Air Conditioner compressors, fluorescent light ballasts, CRT monitors/televisions, etc.), and free from vibration, dust and direct sun light.

3.2 Before Connecting to the Network

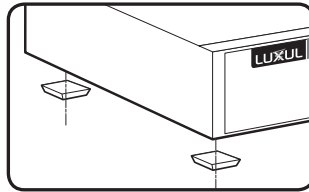
- ▶ The XMS-1008P can be rack-mounted or used as a desktop switch. Before connecting to the network, please be aware of the following requirements:

- ▶ Install the XMS-1008P in a stable/safe place to avoid any possible damage
- ▶ Make sure there is adequate space around the XMS-1008P for adequate ventilation and proper heat dissipation. It is recommended to have at least 4-6 inches around all sides.
- ▶ Do not place heavy articles on the XMS-1008P.
- ▶ Power outlets should be within 5 feet of the XMS-1008P.
- ▶ Verify the ground connection of the outlet is functioning properly.
- ▶ Check the power cord to confirm a secure connection.
- ▶ Avoid placement in direct sunlight.
- ▶ When installing the XMS-1008P on a flat surface, attach the rubber feet to the bottom of the device to avoid scratching the surface.

XMS-1008P INSTALLATION

Installation on Desktop/Shelf

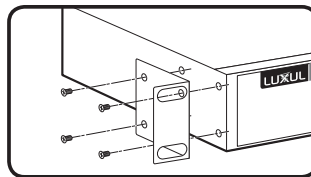
As shown below, attach the four rubber footpads to 4 corner indentations on the bottom of the XMS-1008P. Place the switch horizontally on a solid, level platform.



Desktop/Shelf Installation of XMS-1008P

Installation in a Rack

The XMS-1008P is suitable for 19-inch rack installation. With the included L brackets, it can be conveniently installed into a server or audio rack. As shown below, use three screws to attach the L-shaped brackets on either sides of the XMS-1008P, and horizontally insert the switch into a free space within the rack. Use your desired hardware to affix the switch supports to the rack.



L-Shaped Supports for XMS-1008P

Network Connections

The XMS-1008P supports 10/100/1000 Mbps Ethernet; 10/100 Mbps half/full-duplex mode and 1000 Mbps full-duplex mode. All RJ-45 ports support Auto MDI/MDIX and can be used as ordinary ports or as Uplink ports. Any RJ-45 port can be used to connect the XMS-1008P to an Ethernet enabled device (including servers, routers, and other switches) without a crossover cable.

The XMS-1008P offers 2 SFP optical/copper module expansion ports. When Gigabit SFP optical modules are inserted, these interfaces can support optical fiber cables to extend the Gigabit network up to 49 miles—enabling the network to extend beyond the 300 foot limitation of twisted pair Ethernet. When Gigabit SFP copper modules are inserted, the standard Ethernet limitations apply.

Network Transmission Media

For the RJ-45 ports, Category-5, super Category-5 or Category-6 unshielded twisted pair (CAT5/CAT5e/CAT6 UTP) should be used. For best results, it is recommended that Category-6 shielded twisted pair be used to ensure stable data transmission at 1000 Mbps. Optical fiber/cable should be selected based on the wavelength of the SFP optical module to be used.



CAUTION: Make sure only one Uplink channel exists between switches or between the XMS-1008P and a router. Otherwise, loops can occur and result in network failure.

CONFIGURATION

Login

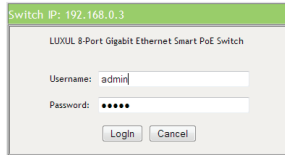
The XMS-1008P is not equipped with internal DHCP server. However, if you are connecting to the XBR-2300 Enterprise Dual-WAN Router with the default LAN address, the configuration will be automatic. Otherwise, the IP address of the computer for login and configuration will need to be manually configured. The table below lists the default parameters of the XMS-1008P.

Parameter:	Default Value
Default IP address:	192.168.0.3
Default user name:	admin
Default password:	admin

Login to the switch with the following steps:

1. Plug an Ethernet cable into any of the switch ports
2. Plug the other end into the Ethernet port of your computer

3. Power on the switch.
4. Check to see that the IP address of the computer is within this network segment: 192.168.0.xxx (“xxx” ranges 2-254. For example, 192.168.0.50). For IP address settings, refer to Appendix 2.
5. Open the Web browser and enter 192.168.0.3. The switch login window appears, as shown below.



6. Enter the user name and password (default user name and default password are both set as “admin”), and then click “OK” to login to the switch configuration window.

Click any menu item on the left to view and/or modify the corresponding settings or functions.

ADVANCED SETTINGS

For login and advanced settings information see the User Guide on luxul.com

FCC Statement:

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 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.