



LCS-GSP8108

**8-Port Gigabit Ethernet
PoE+ Desktop Switch**

User's Manual

English



FCC Certifications

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 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



This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class B 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.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.

Trademarks:

All trade names and trademarks are the properties of their respective companies.

Copyright © 2012, All Rights Reserved.

Unpacking Information

Thank you for purchasing this product. Before installation, please verify that your package contains the following items.

1. **One 8-port Gigabit Ethernet with 8-port PoE+ Desktop Unmanaged Switch**
2. **1* AC power cord**
3. **Rubber feet and screws**
4. **User's Manual**
5. **2* Brackets**
6. **1*Wall mount accessory**

Introduction

General Description

The device is a powerful, high-performance Gigabit Ethernet Switch, with all 8 ports capable of 10/100/1000Mbps auto-negotiation operation (NWay), which means 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 with no pain.

This switch supports PoE, which supplies power for connected devices via CAT 5 and above twisted cables. By integrating the data transmitting cable and power cord, it eliminates the effort constructing your network. You could easily connect a Wireless AP or a VoIP phone to this switch without looking outlets for them. Over current protection and circuit shorting protection are also supported to ensure the safety.

The switch is plug-n-play without any software to configure and also fully compliant with all kinds of network protocols. Moreover, the rich diagnostic LED indicators on the front-panel provide the operating status of individual port and whole system.

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
- Compliant with IEEE 802.3af/at PoE standard (DTE power via MDI)
- Provides 8 PoE ports with classification identify
- Supports 31.5W maximum per PoE port
- Supports over current protection and circuit shorting protection
- 8 * RJ-45 ports for 100BASE-TX and 1000 BASE-T and 10BASE-T connectivity

- Provide 8* 10/100Mbps auto-detect(half/full) and 1000Mbps full duplex switch ports (IEEE802.3/802.3u/ 802.3ab)

- Supports MDI/MDI-X auto crossover

- Supports 136W Max;

Full load: $31.5W(at) \times 4P + 5W = 131W$;

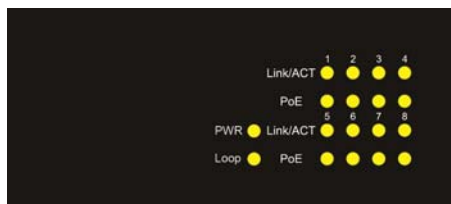
$15.4W(af) \times 8P + 5W = 128.2W$

- Wire-speed packet filtering and forwarding rate
- Store-and-forward architecture filters fragment & CRC error packets
- Supports extensive LED indicators for network diagnostics
- Internal universal switching power supply

The Front Panel

The front panel consists of LED indicators and the ports. For detailed LED definition, please refer to the next paragraph.

The front panel of the switch is shown as below:



LED Definition

The switch contain 1* power LED and 1* loop LED for the device, 1* PoE LED for each port and 1* Link/Act LED for each port.

LED indicators for the device

The switch provides a power LED and a loop LED for the device.

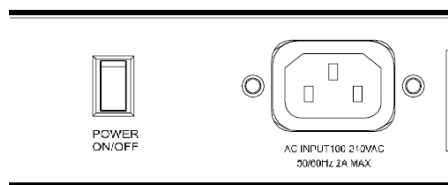
LED	Status	Operation
Power	Steady Green	The switch is powered on
	Off	The switch is powered off
Loop	Blinking Red	There is a loop existing
	Off	There is no loop existing

Port LED

The switch provides one "Link/ACT" LED and one PoE LED for each port.

LED	Status	Operation
Link/ ACT	Steady Green	Valid port connection
	Blinking Green	Valid port connection and there is data transmitting/receiving
	Off	Port disconnected
PoE	Green	One PoE compliant device is connecting with this port.
	Off	There is no PoE compliant device connecting with this port.

The Rear Panel



Power Receptacle

To be compatible with the electric service standards around the world, the switch is designed to afford the power supply in the range from 100 to 240VAC, 50/60Hz. Please make sure that your outlet standard to be within this range.

To power on the switch, plug the female end of the power cord firmly into the receptacle of the switch and the other end into an electric service outlet. After the power cord installation, please check if the power LED is illuminated for a normal power status.

Installation

This switch can be placed on your desktop directly, or mounted in a rack. The installation is a snap. Users can use all the features of the switch with simply attaching the cables and turning the power on.

Before installing the switch, we strongly recommend:

1. The switch is placed with appropriate ventilation environment. A minimum 25mm space around the unit is recommended.
2. The switch and the relevant components are away from sources of electrical noise such as radios, transmitters and broadband amplifiers.
3. The switch is away from environments beyond recommend moisture.

Desktop Installation

1. Attach the provided robber feet to the bottom of

the switch to keep the switch from slipping. The recommend position has been square-marked.

2. Install the switch on a level surface that can support the weight of the unit and the relevant components.
3. Plug the switch with the female end of the provided power cord and plug the male end to the power outlet.

Rack-mount Installation

Rack mounting facilitate to an orderly installation when series of networking devices being installed. The switch is supplied with rack mounting brackets and screws for rack mounting the unit.

Procedures to Rack-Mount the Switch in the rack:

1. Disconnect all the cables from the switch before continuing.
2. Place the unit the right way up on a hard, flat surface with the front facing you.

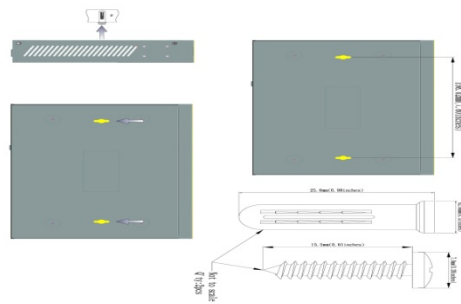
3. Locate a mounting bracket over the mounting holes on one side of the unit.
4. Insert the screws and fully tighten with a suitable screwdriver.
5. Repeat the two previous steps for the other side of the unit.
6. Insert the unit into the rack and secure with suitable screws (not provided).
7. Reconnect all the cables.

Wall-mount Installation

The two slots located on the switch's bottom panel are for device wall-mount use. The distance between the two slots is 7.8 inches (198.02 mm). Attach two screws on the wall, so that the switch's wall-mount slots line up with the two screws.

Procedures the Wall-Mount to switch

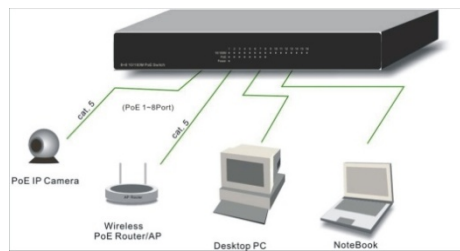
1. Use drill bit to insert the two plastic screws into the wall.
2. Insert the two iron screws into the hole of the two plastic screws respectively.
3. Place the switch onto the iron screws through the wall-mount slots to make the switch hanging on the wall.



Network Cables Installation

1. **Crossover or straight-through cable:** All the ports on the switch support Auto-MDI/MDI-X functionality. Both straight-through or crossover cables can be used to connect the switch with PCs as well as other devices like switches, hubs or router.
2. **Category 3,4,5,5e or 6 UTP/STP cable:** To make a valid connection and obtain the optimal performance. Appropriate cables corresponding to different transmitting/receiving speed is required. To choose a suitable cable, please refer to the following table.

Media	Speed	Wiring
10/100/1000 Mbps ports	10 Mbps	Category 3, 4, 5 UTP/STP
	100 Mbps	Category 5 UTP/STP
	1000 Mbps	Category 5e, 6 UTP/STP
Ports that support PoE (Port 1~Port8)	10/100/1000 Mbps	Category 5, 5e, 6 UTP/STP or above



Product Specifications

Standard	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3ab 1000BASE-T
	IEEE 802.3af/at PoE standard (DTE power via MDI)
	IEEE802.3x flow control
Interface	8 * 10/100/1000 Mbps auto
	MDI/MDI-X RJ-45 ports
	(Port 1~8 support PoE power feeding)
Network Data Rate	10/100/1000Mbps Auto-negotiation
Transmission Mode	10/100Mbps: Full-duplex, Half-duplex
	1000Mbps Full-duplex
LED	System: Power, Loop
Indications	Ports: Link/ACT, PoE
Memory	8K MAC address table
	9216 bytes jumbo packet length
	128K bytes buffer Memory
Emission	FCC, CE, VCCI Class B
Operating Temperature	0 ⁰ ~ 40 ⁰ C (32 ⁰ ~ 104 ⁰ F)
Operating Humidity	10% - 90%(non-condensing)
Power Supply	55V 2.73A
	100-240V/47-63 Hz universal input



LONGSHINE Technologie (Europe) GmbH

Post Address: P.O.Box 1480 D-22 564 Ahrensburg Tel: ++49-(0)-4102-4822-0
House Address: An der Strusbek 9 D-22 525 Ahrensburg Fax: ++49-(0)-4102-49199
WEB: <http://www.longshine.de> E-MAIL: sales@longshine.de

DECLARATION OF CONFORMITY

In accordance to
EUROPEAN COUNCIL DIRECTIVE
2004/108/EC & 2006/95/EC & 2011/65/EU



= European Community Conformity Mark

We, Manufacturer/Importer

Longshine Technologie (Europe) GmbH
An der Strusbek 9
22526 Ahrensburg
Germany

Declare That The Product

LCS-GSP8108
8 Port 10/100/1000Mbps POE Ethernet Switch

Is In Conformity With:

Standards	Results
CISPR22: 2009, Class B	Pass
EN 55022: 2010, Class B	Pass
EN 61000-3-2: 2006+A1:2009+A2, Class A	Pass
EN 61000-3-3: 2008	Pass
EN 55024: 2010	Pass
IEC 61000-4-2: 2008, ED2.0	Pass
IEC 61000-4-3: 2010, ED3.2	Pass
IEC 61000-4-4: 2011, ED2.1	Pass
IEC 61000-4-5: 2009, ED2.0	Pass
IEC 61000-4-6: 2008, ED3.0	Pass
IEC 61000-4-8: 2009, ED2.0	Pass
IEC 61000-4-11: 2004, ED2.0	Pass
EN 60950-1: 2006+A1:2010+A12:2011	Pass

Identification of signatory empowered to bind the manufacturer or his authorized representative.

Signature

Manufacturer/Importer

Date: 21.06.2012

Deutsch/Kürzel: Dresdner Bank
Dr. Rang-Jye Lu BLZ 250 800 00, Kto.-Nr. 721 137 600
IBAN: DE44 250800000721137600 Steuer Nr.
SWIFT BIC: DRESDE33 302906798

USt-IdNr.: DE151364101
Registernummer: Ahrensburg HR B 3135