HS-Series HS-1008M

8 Port 10/100/1000/2500M Multi Gigabit Switch

User's Guide

FCC Certifications

CE Mark Warning

Unpacking Information

Thank you for purchasing our HS-Series products. Before installation, please check that your package contains the following items.

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

1. HS-1008M Main Unit x 1
2. Power Adapter x 1
3. User's Guide Quick Installation Guide Booklet x 1
4. Warranty Card x 1

Application

Introduction

CERIO HS-1008M is a plug & play ultra-high speed and high-performance network switch. It supports 8 port 10/100/1000/2500Mbps Multi Gigabit Ethernet ports. All ports support Auto-Negotiation traffic modulation function, which helps to optimize the transmission speed and performance of each connected device. It supports existing conventional 10/100/1000Mbps Gigabit Ethernet equipment and new generation 2.5GbE network equipment. Whether you want to upgrade the office network or home use, HS-1008M can achieve faster and smoother bandwidth and transmission capabilities for you to achieve more flexible network applications

CERIO HS-1008M can use existing CAT 5e cables to enjoy ultra-high-speed network transmission, it's eliminating construction costs, and realizing economical network upgrades. HS-1008M with fanless design, simple and convenient operation, no need to configure software, plug and play. It's able to meet the hyper-converged large-scale data centers, AI applications, 4K high-quality image transmission, WiFi 6 wireless base stations, cloud data centers needs, etc., and provides stable and efficient transmission. The HS-1008M defines new green power saving idea in all Ports. Using the 802.3az Energy Efficient Ethernet standard, the network will automatically decrease the power usage when traffic is low with no setup required. Moreover, it supports desktop and wall mounting installation, making it more convenient and safer for you to use.

Highlight Features

➢ Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3bz 2.5G BASE-T and IEEE 802.3az EEE specifications.

➢ 8 Port 10/100/1000/2500Mbps TX Auto-Negotiation Ethernet Switch.

➢ Supports Energy-Efficient Ethernet (EEE) , IEEE 802.3az standard.

➢ Half/Full-duplex capability on each TX port Auto-learning networking configurations.

➢ Supports Store & Forward architecture and performs forwarding and filtering.

➢ IEEE802.1x flow control for Full-duplex, Back Pressure function for Half-duplex operation.

➢ Provides 12K Jumbo frames to improve network utilization of a large file transfers.

➢ Non-blocking & Non-head-of-line blocking full-wire speed forwarding.

➢ Supports TP interface Auto MDIX function for auto TX/RX swap.

➢ Automatic Source MAC Address Learning and Aging.

➢ Supports up to 16K MAC addresses.

➢ Supports 12Mb buffer memory.

➢ Supports desktop and wall mounting installation.

Installation

The setup of the switch can be performed using the following steps:
- Visually inspect the DC jack and make sure that is fully secured to the power adapter
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch. Do not place heavy objects on the Switch
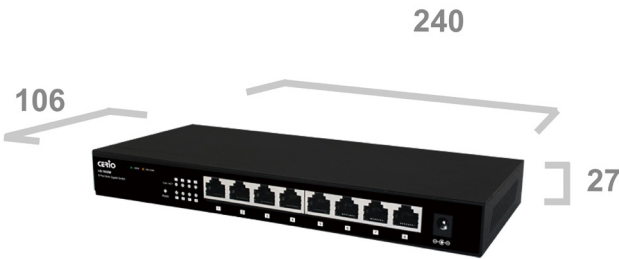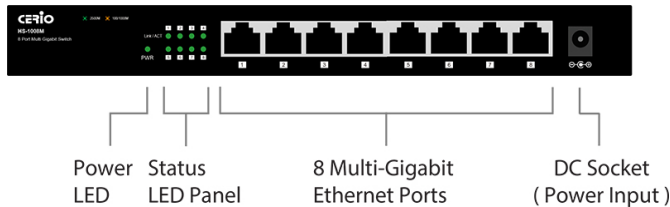
Desktop Installation
1. Attach the Rubber feet provided with the switch to ensure minimal movement of the device
2. Keep the switch away from devices such as radios, broadband amplifiers, and other transmitters that might cause signal interferences
3. Distancing the device from moisture is also highly recommended

Cables Installation

HS-1008M has 8 Multi Gigabit ports, when connecting the device to a computer or even another switch, no crossover cable is required. In addition, the auto-negotiation function will automatically detect and adjust the connected devices, whether they are running at 10Mbps, 100Mbps, 1000Mbps or 2500Mbps. In order to make an effective connection and use the appropriate cable for the best performance, please refer to the table below.

Media	Speed(Mbps)	Cable Type
100/1000/2500 Mbps Copper	100	Category 5 UTP/STP
	1000	Category 5e, 6 UTP/STP
	2500	Category 5e, 6 UTP/STP

Hardware Overview

| Power LED | Status LED Panel | 8 Multi-Gigabit Ethernet Ports | DC Socket (Power Input) |

Dimension : 240 x 106 x 27mm (W x D x H)
Weight : 0.64kg

LED Indicator

Complete LED indicators displays the status of the Switch and network status
The front panel LEDs provides instant status feedback, and assists to monitor and troubleshoot when required.

Power LED *Power : (Power Indicator)*

On :	Power On
Off :	Power Off

LINK/ACT Status LEDs : 100/1000/2500Mbps (Ports 1~8)

Amber :	100M/1000M Link / Act connected.
Green :	2500M Link / Act connected.
Blinking :	A valid link is established, and there is data transmitting/receiving.

Product Specifications

Standards & Hardware Specifications

Network Standards Conformance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3bz 2500Base-T IEEE 802.1x Flow Control IEEE 802.3az EEE
Port Configuration	8ports RJ-45 connectors for 10/100/1000/2500Mbps
Media Access Protocol	CSMA / CD
Network Media	10BASE –T: UTP Cat. 3 or up, 100BASE-TX: UTP Cat. 5 or up, 1000BASE-T: UTP Cat. 5 or up 2500BASE-T: UTP Cat. 5e or up
Transmission Method	Store and Forward
MAC Address Table	16K
Built-in Buffer	12Mb
Jumbo Frame	12K
Data Transfer Rate	10/100/1000/2500Mbps (Half-duplex), 20/200/2000/5000Mbps (Full-duplex)
Auto MDI/MDIX	Yes
LED Indicators	Per Port : Link Status x 8 Green(2500Mbps Link) Amber(100/1000Mbps Link) Per Unit(PWR) x 1
Internal Bus Speed	40Gbps

Environmental & Mechanical Characteristics

Power Type	DC-Jack : for bundled External Power adapter
Power Consumption	4.15Watt
Power Requirement	External 12 VDC 1.5A DC Input
Operating Temperature	0° to 45° C
Storage Temperature	-40° to 70° C
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing
Dimension (W x H x D)	240 x 106 x 27mm
Unit Weight	0.64kg
Case of Materials	Metal
Production Location	TW or CN
Certification	FCC, CE, RoHS-compliant

Package Contents

HS-1008M Main Unit	X1
Quick Installation Guide Booklet	X1
Power Adapter	X1
Warranty Card	X1