CERIO

Amplify your Wireless Network

CS-1008TG

8 Port 10Gigabit Ethernet Switch

EAN Code : 4712757150308

Introduction

CERIO CS-1008TG is a 10G high-performance Ethernet switch that supports 8 Ethernet ports and is designed for high-bandwidth, low-latency applications such as enterprises, small and medium offices, workstations, local area networks and home entertainment.

CS-1008TG provides high-speed internal network connection for small businesses or office environments to improve data transmission efficiency and ensure smooth file access and sharing between servers, NAS, and workstations. In addition, it can be deployed in the distributed terminal area of a large network architecture, not only as the final 10G high-speed access device, but also as the backbone network switch between regions. It's fully meet the high-bandwidth requirements of the new generation of multimedia and image transmission, and allow small businesses and professional users to easily upgrade to 10G high-speed networks at a competitive price. CS-1008TG supports plug-and-play and various network protocols, making device installation easier and faster. Each port supports Auto-MDI/MDIX functionality, which can automatically detect straight-through or crossover cable connections to ensure compatibility. The built-in Auto-Negotiation traffic modulation technology automatically detects connected devices and intelligently adjusts to 100M, 1G, 2.5G, 5G, or 10Gbps operation modes based on the device specifications, ensuring optimal performance.

CS-1008TG provides non-blocking and non-head-of-line blocking full-line speed transmission technology to ensure that data are transmitted more smoothly and efficiently. In a 10G environment, CS-1008TG provides a total bandwidth up to 160Gbps, greatly improving network performance and transmission efficiency. It is an ideal choice for optimizing enterprise-level and high-performance application network environments.

Highlight Features

- Complying with IEEE 802.3u 100Base-TX, IEEE 802.3z 1000Base-X, IEEE 802.3bz 2.5G/5G BASE-T, IEEE 802.3an 10G BASE-T standards.
- 8 ports 100M/1G/2.5G/5G/10G Auto-Negotiation Ethernet Switch.
- Supports 100M/1G/2.5G/5G/10G Ethernet connection ability.
- Supports Surge Protection 6Kv and ESD Protection design.
- Half/Full-duplex capability on each TX port Auto-learning networking configurations.
- Provides 10K Jumbo frames to improve network utilization of a large file transfers.
- Supports Store & Forward architecture and performs forwarding and filtering.
- IEEE802.3x flow control for Full-duplex, Back Pressure function for Half-duplex operation.

- 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 hardware loop detector (LED Loop Detectors) functionality. The system can quickly display LED differences for any port that generates a loop, making the troubleshooting process simple and easy to manage.
- Hardware supports Loop Automatic Protection functionality, which prevents broadcast storms and network paralysis caused by loops. This feature automatically detects and isolates the port generating the loop, ensuring that it does not affect other normal ports. Once the loop issue is resolved, the system will automatically restore the isolated security mechanism within 30 to 60 seconds.
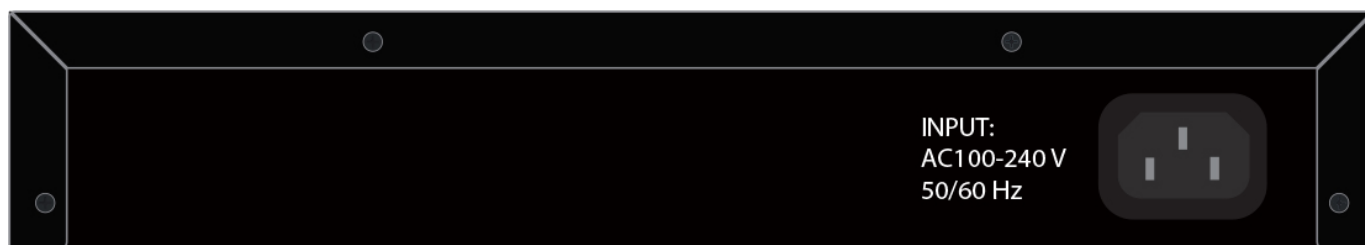- Supports up to 16K MAC addresses and up to 12 Mb buffer memories.
- Supports Internal Bus Speed up to 160Gbps.
- Comes with a 19-inch rackmount kit, making it easy to deploy in various network environments and ensuring stable and efficient network connections.

Hardware Overview

LED   8 x 10Gigabitb RJ45 Ports

Power Cord Input

Standards & Hardware Specifications

Network Standards Conformance
IEEE 802.3u 100Base-TX
IEEE 802.3ab 1000Base-T
IEEE 802.3bz 2.5G/5G BASE-T
IEEE 802.3an 10G BASE-T
IEEE 802.3x Flow Control

Port Configuration
8 ports RJ-45 10G connectors

Surge Protection
General 6KV , Difference 2KV on RJ45/Power

ESD Protection
Air : 15KV , Contact : 8KV

Media Access Protocol
CSMA / CD

Network Media
100BASE-TX: UTP Cat. 5 or up
1000BASE-T: UTP Cat. 5e or up
2.5G /5GBASE-T: UTP Cat. 5e or up
10GBASE-T : UTP Cat. 6a or up

Transmission Method
Store and Forward

MAC Address Table
16K

Built-in Buffer
12Mb

Jumbo Frame
10K

Data Transfer Rate
100M/1G/2.5G/5G/10G (Half-duplex),
200M/2G/5G/10G/20G (Full-duplex)

Auto MDI/MDIX
Yes

LED Indicators	
100M/1G Per Port: Link/ACT (On RJ45 Right/Green)	x 8
2.5G Per Port: Link/ACT (On RJ45 Right/Orange)	x 8
5G Per Port: Link/ACT (On RJ45 Left/Green)	x 8
10G Per Port: Link/ACT (On RJ45 Left/Orange)	x 8
Per Unit: System Status	x 1
Per Unit: PWR Status	x 1

Internal Bus Speed/Exchange Rate
160Gbps / 119.04Mpps

Environmental & Mechanical Characteristics

Power Consumption
≤ 35 Watts

Power Type
Power cord: Internal Power supply

Power Requirement
AC 100~240VAC, 50-60Hz Auto-sensing

Operating Temperature
0° to 55° C

Storage Temperature
-40° to 70° C

Operating Humidity
10% to 90% non-condensing

Storage Humidity
5% to 90% non-condensing

Dimensions (W x H x D)
250 x 187 x 44 mm

Unit Weight
1.54kg

Production Location
TW

Certifications
FCC, CE, BSMI, RoHS-Compliant

Package Contents

Contents	
CS-1008TG Main Unit	x1
Quick Installation Guide Booklet	x1
Power Cord	x1
19" Rack Mount Brackets	x1
Warranty Card	x1