

# CS128M Series

24/28 - port Full Gigabyte Managed Industrial Ethernet switches



- ▶ Up to 24 10/100/1000BaseT(X) ports and 4 1000BaseF(X) or SFP slots
- ▶ Support ERPS, STP/RSTP/MSTP for network redundancy
- ▶ IGMP Snooping for filtering multicast traffic
- ▶ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- ▶ Port Trunking for optimum bandwidth utilization
- ▶ RADIUS, TACACS+, SNMPv3, IEEE 802.1X, HTTPS and SSH to enhance network security QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
- ▶ SNMPv1/v2c/v3 for different levels of network management
- ▶ RMON for efficient network monitoring and proactive capability
- ▶ Support port mirroring
- ▶ Bandwidth management prevents unpredictable network status
- ▶ Lock port function for blocking unauthorized access based on MAC address
- ▶ Automatic alarm through e-mail, relay out
- ▶ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions
- ▶ Include 100~240 VAC and redundant dual 12/24/48 VDC power inputs
- ▶ PoE / PoE+ option



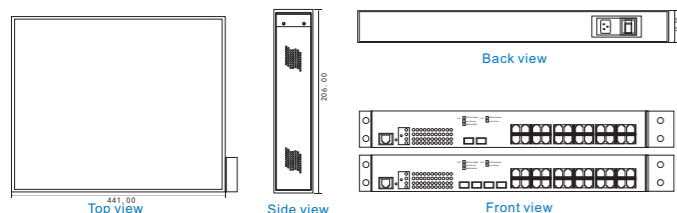
## Overview:

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The CS128M series full Gigabit backbone switches are equipped with up to 28 Gigabit Ethernet ports, making them ideal for large scale industrial networks. The CS128M Series' full Gigabit capability increases bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. Enormous management function increase system reliability and the availability of your network backbone.

The CS128M Series support one full-range AC and dual DC power inputs from +12~48 VDC or -12~48 VDC, and support extend operating temperature from -40 to 85°C. One additional relay output is provided for system alarm warning. It undergoes a 100% burn-in test to ensure that they fulfill the special needs of harsh industrial environment.

## Dimensions:

Size: (mm)



## Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-CS-80424G	24	4
WT-CS-80224G	24	2

## Specifications:

<b>Protocols</b>	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNT, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP, PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588 PTP V2, IPv6, NTP Server/Client
<b>MIB</b>	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control
<b>Switch Properties</b>	Priority Queues: 4 Max. Number of Available VLANs: 64 VLAN ID Range: VID 1 to 409 IGMP Groups: 256 MAC Table size: 8K Packet Buffer Size: 4Mbit Jumbo Frame Size: 9.6 KB
<b>Interface</b>	Fiber Ports: 1000BaseF(X) or SFP slot Rj45 Ports: 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators: PWR, L/A, SPD, PoE(option)
<b>Power Requirement</b>	Input Power: 100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block Power Consumption: 18 Watts Overload Current Protection: Present
<b>Physical Characteristics</b>	Housing: IP30 protection, Metal case Dimensions: 441mm*206mm*45mm (17.3 x 8.11 x 1.77 in) Weight: 2500g Installation: 19" 1U rack
<b>Environmental Limits</b>	Operating Temperature: -40 ~ 85 °C ( - 40 ~ 185 °F) Storage Temperature: -40 ~ 85 °C ( - 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
<b>Standards</b>	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF (mean time between failures) : 305,000 hrs IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3x for Flow Control
<b>Warranty</b>	5 years