

CS-CANET200

2 CAN-bus to 1x100M Ethernet Wall Mount CAN Server



- 1 x 100M copper port, 2 x CAN ports
- Enables CAN terminal devices to connect to networks, supporting CAN-to-UDP, TCP, Modbus, HTTPD, WebSocket, and other protocols
- Supports CAN relay for transparent data transmission between CAN and other CAN interfaces
- Features external independent hardware watchdog design to prevent system lockups
- Industrial-grade DC9~36V input with reverse polarity protection
- High-strength metal housing with IP40 protection rating
- -40°C to +85°C operating temperature range

Product Description

CS-CANET200 is a 2-port isolated CAN-to-Ethernet wall-mount CAN server featuring a 32-bit Arm Cortex-M7 core with a clock speed up to 400MHz and an external hardware watchdog design. Power supply, Ethernet ports, and CAN interfaces all feature high-level ESD, surge, and EFT protection, ensuring strong anti-interference capabilities. Specifically designed for industrial users, it enables bidirectional transparent transmission between CAN-bus and Ethernet networks, effectively extending the reach of CAN-bus systems. This product supports 1 x 100M copper port, 2 x CAN ports. Each CAN interface is isolated from others with 2kVAC isolation voltage. The communication baud rate for each CAN port (5Kbps to 1000kbps) can be freely configured, enabling interconnection of CAN networks with different communication baud rates. It integrates a TCP/IP protocol stack internally, enabling bidirectional transparent transmission between two CAN channels and Ethernet. Supports CAN trunking functionality to extend network capacity, increase node count, and extend communication distance. Supports unlimited cascading for ultra-long-distance communication. Powerful ID filtering functionality allows selection of permitted or prohibited ID ranges, enabling selective data forwarding. This significantly reduces bus load on channels, enhances data isolation, and achieves efficient data utilization.

The industrial-grade CAN server supports web-based configuration for multiple network management functions, including CAN/network operating modes, port information, network addresses, user passwords, system information, and system administration. It supports various conversion modes such as UDP/UDP Multicast, TCP Client/Server, Modbus TCP Slave, Relay, Pair Connection Master/Slave, HTTPD Client, and WebSocket Client, enabling CAN-to-Ethernet or CAN-to-Modbus TCP protocol conversion. At the core component level, the product employs industrial-grade quality design solutions. It offers numerous advantages including wide temperature and voltage ranges, lightning strike resistance, electromagnetic interference immunity, high reliability, and high performance, making it suitable for operation in harsh environments. It can be used in fire alarms, industrial monitoring, traffic management, meteorology, water treatment, environmental monitoring, coal mining, petroleum, chemical processing, and new energy sectors. It facilitates remote field data acquisition, remote monitoring, and field control, making it an indispensable industrial communication product for the development of the Industrial Internet of Things.

Product Features

- Support a 32-bit ARM Cortex-M7 core operating at up to 400MHz;
- CAN port supports selectable baud rates from 5kbps to 1000kbps;
- Support filtering of standard CAN frame IDs and extended frame IDs;
- Support UDP and UDP Multicast modes, enabling fast and efficient point-to-point, point-to-multipoint, or multipoint-to-multipoint communication via UDP protocol;
- Support TCP Client/Server mode, establishing session connections via TCP protocol with support for up to 4 concurrent sessions;
- Support Pair Connection Master/Slave mode for simplified device pairing;
- Support Modbus TCP Slave mode, enabling Modbus TCP to CAN bus protocol conversion via read/write command mapping;
- Support Relay Mode for data forwarding between CAN ports;
- Support HTTPD Client mode for GET or POST operations with HTTPD servers;
- Support WebSocket Client mode for bidirectional communication with WebSocket servers;
- Support multiple packet segmentation mechanisms, converting CAN data into Ethernet packets based on data length or time to meet diverse network real-time requirements;
- Support registration packets and heartbeat packets for connection verification and status monitoring;
- Support bus port transmission and reception frame statistics, along with network connection information statistics;
- Support user management with different permission levels;
- Support CAN port online restart, device restart, factory reset, and firmware upgrade.

Technical Specifications

Software	
Network Protocol	IP, TCP/UDP, ARP, ICMP, DHCP, DNS, HTTP
IP Obtaining Method	Static IP/DHCP
User Configuration	Web Configuration
Simple Transparent Transmission	TCP Client/TCP Server/UDP /UDP Multicast/Pair Connection/WebSocket Client/HTTPD Client
Modbus	CAN to Modbus TCP
Network connection count	A single bus port supports up to 4 network connections.
Network Cache	Send:16Kbyte; Receive:16Kbyte
Transmission Delay (Average)	<10ms
Heartbeat Package	Support (Client Only)
Registration Package	Support (Client Only)
Packet Length	CAN:0~50 frames
Packet Interval	0~255ms
CAN Relay	Support
CAN Transmit/Receive	Send: 6000 frames per second; Receive: 8000 frames per second
CAN ID Filtering	Support
CAN Buffer	Send: 200 complete data packets per channel; Receive: 200 complete data packets per channel
Interface	
100M Copper Port	1 x 10/100Base-T(X) port auto sensing RJ45 port, full/half duplex, auto MDI/MDI-X

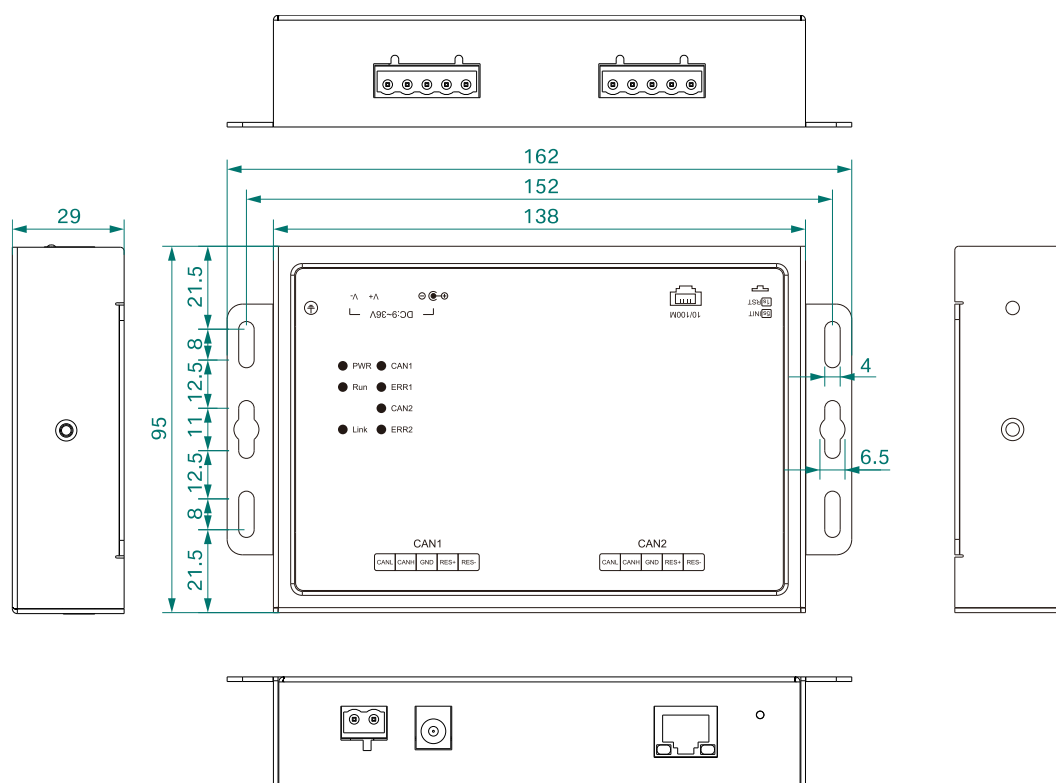
CAN	Interface Count: 2 x CAN Connection Method: 5-pin terminal block with 5.08mm pitch Baud Rate: 5kbps~1000kbps Terminating Resistor: Built-in 120Ω terminating resistor, connectable via terminal block Isolation Protection: 2kVAC
Button	One-button restart or factory reset button
Status LED	Power indicator, operation indicator, Ethernet port indicator, CAN indicator, ERR indicator
Power Supply	
Input Voltage	DC9~36V
Power Consumption	< 0.8W@DC12V(full load)
Connection	2-pin 5.08mm pitch terminal blocks or Φ2.5mm DC round head
Physical Characteristics	
Dimensions	162×95×29 mm (mounting brackets included)
Installations	Wall mount
IP Code	IP40
Working Environment	
Operating Temp	-40°C~+85°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Contact discharge ±8kV, air discharge ±15kV IEC 61000-4-5 (Surge): Power Supply: Common-mode ±4kV, Differential-mode ±2kV; CAN: Common-mode ±4kV, Differential-mode ±2kV; Ethernet Port: Common-mode ±6kV, Differential-mode ±2kV IEC 61000-4-4 (EFT): Power Supply: ±4kV; Communication Port: ±4kV

Certification

CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Copper Port	CAN	Input Voltage
CS-CANET200	1	2	DC9~36V



Contact Us

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