MW-CANET200

2-port Opto-isolated Wall-mounted Ethernet CAN Server

Product description

MW-CANET200 Ethernet CAN Server supports 1 100M Ethernet electrical port and 2 CAN-bus interfaces for networking, which adopts 32-bit Arm Cortex-M7 core CPU, up to nearly 400MHz main frequency. Each CAN interface is independent of each other, does not affect each other, and can be configured into different modes and baud rates.

Features:

-10/100M Ethernet electrical port, 2 CAN-bus interfaces for networking;

-Adopt 32-bit Arm Cortex-M7 core CPU, up to nearly 400MHz main frequency;

-External independent hardware watchdog design to prevent crashes;

-Ethernet interface up to 6KV lightning protection, CAN interface up to 4KV surge protection;

-Isolation design, CAN interface isolation voltage 2KVAC, each CAN interface is independent of each other, does not affect each other, and can be configured into different modes and baud rates;

-Provide industrial-grade DC power supply DC9~36V input, with anti-reverse connection protection;

-Meet the industrial temperature range of -40℃~+85℃

Product specification

Power	
Operating Voltage	DC9~36V, The power interface supports two connection methods: DC connector (2.5mm) and terminal block (2 pin 5.08mm spacing).
Working current	63mA@12V
Power consumption	No-load: 50mA@12VDC; Full-load: 63mA@12VDC

Ethernet port	
Network port type	10/100Mbps, support MDI/MDIX cross-direct connection automatic flip
Isolation protection	1.5KV isolation protection
Duplex mode:	Self-adaptive Full/Half Duplex Mode

CAN-bus interface	
CAN quantity	2 way, CAN signal: CANH, CANL,
Interface form	CAN interface adopts 5-pin 5.08mm pitch terminal block(By default, the CAN interface of the device is not equipped with a 120-ohm terminal matching resistor. When RES+ and RES- are short-circuited, this CAN interface will be equipped with a 120Ω terminal matching resistor)
Load capacity	support concurrent transmitting of 200nodes, the theoretical transmission distance of CAN port is 40m-10km
Way of working	Normal, loopback, listen
CAN baud rate	5K~1M (bps)
CAN protection	2KVAC isolation
Matching resistance	Terminal configuration

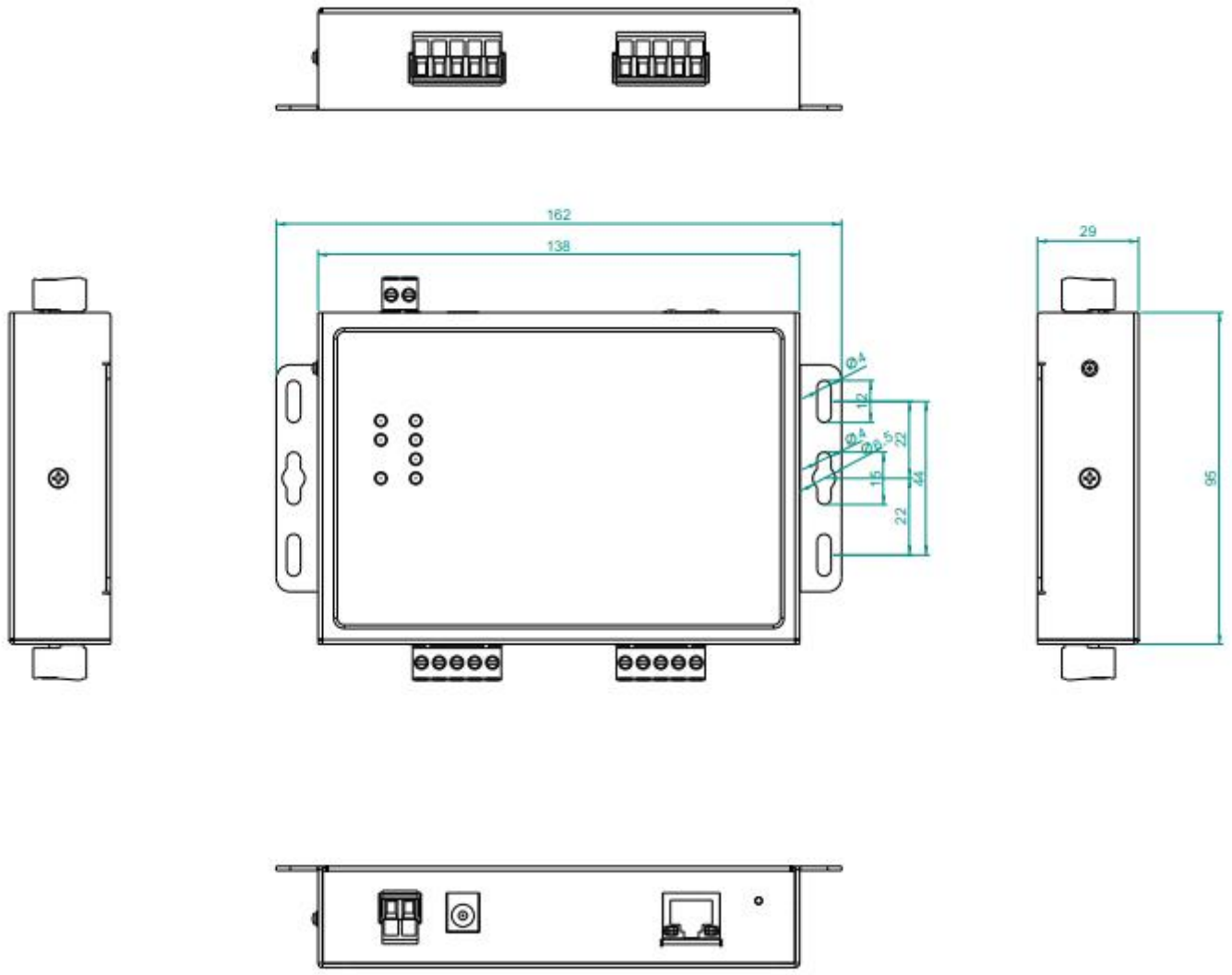| Reliability	
ESD	$\pm$8kV (contact discharge); ±15kV (air discharge)
Surge	Power supply: $\pm$4kV/common mode $\pm$4kV/differential mode CAN interface: $\pm$4kV/common mode $\pm$4kV/differential mode Network port: $\pm$6kV/common mode $\pm$4kV/differential mode
EFT	Power supply: ±4kV Communication port: ±4kV

Software parameters	
CAN ID filtering function	Support
Number of connections supported by a single CAN port	4 way
CAN relay	Support
CAN transceiver capability	Send: 6000 frames/sec; Receive: 8000 frames/sec
Network cache	Send: 16Kbyte; Receive: 16Kbyte

CAN cache	Send: 200 complete data packets (each channel); Receive: 200 complete data packets (each channel)
Heartbeat packet (only client)	Support
Registration package (client only)	Support
Average transmission delay	<20ms
Packing length	1~50 frames
Packing interval	1~255ms
No data timeout	Support
Modbus TCP (slave) to CAN	Support
Static IP, DHCP	Support
Security	Classification of User Permissions
Network operation mode	TCP Client/TCP Server/UDP Client/UDP Multicast/Pair Connection/Websocket Client/HTTPD Client
Support network protocol	ARP, ICMP, UDP, TCP, IP, HTTP, DHCP and DNS
Button to restore the factory	Support
Firmware upgrade	Support web upgrade
Configuration Method	WEB configuration management, Windows configuration tool

Others

Housing	IP40, Metal case
Installation method	Wall mounted/Desktop Installation
Size	162x95x29(mm)
Working environment	-40℃～+85℃ 5%～95% RH (no condensation)
Storage temperature	-40℃～+85℃ 5%～95% RH (no condensation)

Industry Standard

EMC	EN61000-4-2(ESD), Level 4 EN61000-4-3(RS), Level 4 EN61000-4-4(EFT), Level 4 EN61000-4-5(Surge), Level 4 EN61000-4-6(CS), Level 4 EN61000-4-8, Level 5
Impact	IEC60068–2-27
Falling	IEC60068-2-32
Shock	IEC60068-2-6

Warranty

Warranty	5 Years
Certification	CE, RoHS

Dimensional drawing

Din-rail mounting (unit: mm)

Ordering information

MW-CANET200	2-channel CAN-bus interface to 1-channel 10/100M Ethernet port wall-mounted CAN server, DC9~36V power supply. The network port and each CAN port are fully isolated, and the isolation voltage is 3000VDC.