CANET200 Datasheet

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1.Product overview

CANET200 is a communication device which can realize data transmission between CAN and network side. CANET200 supports two CAN interfaces, one Ethernet interface and TCP/IP protocol stack. User can realize interconnection between CAN-bus network and Ethernet network to extend the CAN-bus network by CANET200. CANET200 also has one RS485 serial port which is independent to CAN and it can realize data transmission between serial device and Ethernet.

2.Product features

- All-around hardware protection. CAN, serial port, Ethernet interface and power interface all have high-level protection to adapt harsh industrial environment.
- 10/100Mbps Ethernet interface. Support Auto-MDI/MDIX.
- Support CAN ID filtering function, various filtering function make using module more secure.
- One port supports two sockets.
- CAN baud rate ranges from 10K~1Mbps; support BASIC and LOOPBACK work modes.
- Support static IP function or DHCP function; support searching device in network by UDP broadcast.
- Support restoring default settings by Reload button.
- RJ45 has Link/Data LED; Ethernet interface has external isolation transformer and supports 1.5KV electromagnetic isolation.
- Support upgrading firmware by network.
- Support modifying Web Server port(Default is 80).
- Support Keep-Alive function.
- Support CAN relay function.
- Support switching between CAN and RS485.

3.Product specifications

Hardware parameter	
Working voltage	DC 5~36V
Working current	Average 26mA@36V.
	Average 56mA@12V.
	Average 124mA@5V.
Power supply protection	Power supply surge: Level three.
	Group pulse: Level three.
Ethernet interface specification	RJ45, 10/100Mbps, support Auto-MDI/MDIX.
Ethernet interface protection	1.5KV electromagnetic isolation
Serial port	RS485
Serial port baud rate	600~115.2K(bps)
CAN baud rate	10K~1M(bps)
CAN work mode	Basic, loopback
CAN protection	Power supply isolation, signal isolation
Software parameter	
Network protocol	IPV4, TCP/UDP
How to get IP	Static IP, DHCP
Configuration method	Web Server, serial/network AT command
TCP Server connection	Support at most four TCP Client connections; serial server only support one Client connection
CAN receiving capability	8000 frames every second(Every way)
CAN transmitting capability	8000 frames every second(Every way)
Network cache	Transmitting: 16K bytes; receiving: 16K bytes.
CAN cache	Transmitting: two hundred complete data packets(Every way); receiving: two hundred complete data packets(Every way).
Serial cache	Transmitting: 2K bytes; receiving: 2K bytes.
Flow control	Don't support.
Heartbeat packet	CAN: Support user editable heartbeat packet(CAN data packet that conforms to transparent transmission protocol).
	Serial port: Support user editable heartbeat packet.
Identity packet	CAN: Support user editable, MAC, USR Cloud identity packet.
	Serial port: Support user editable, MAC, USR Cloud identity packet.
Average transmission delay	<20 ms
Other parameter	
Working temperature	-40~85℃(Industrial level)
Storage temperature	-40~105℃
Dimensions	96.5*94*25mm(L*W*H)
Working humidity	5~95%RH
Storage humidity	5~95%RH