

IEM304-2D-2C

Industrial-Grade Embedded Serial/CAN Server Module

- 1×10/100Base Ethernet port, 2×TTL serial ports, 2×TTL CAN ports
- Support UDP, TCP, Modbus, HTTPD, WebSocket protocol and virtual com port
- Support CAN to serial conversion; support transparent conversion, transparent conversion with specification, format conversion, and Modbus
- Compact design for easy installation, maintenance and PCBA
- Supply voltage: 3.3V (DC 3~3.6V)
- -40~85°C industrial working temperature



Product Description

The IEM304 Series industrial serial server module is used for adding an Ethernet port to enable network monitoring and control of the serial device. This allows users to remotely monitor and control the serial device over a network, reducing the need for on-site maintenance and improving efficiency. The embedded mounting IEM304-2D-2C module integrates serial device networking, CAN device networking, Modbus gateway, CAN relay and CAN to serial conversion and other functions. The IEM304-2D-2C supports one 10/100Base-T(X) port, 2 TTL serial ports and 2 TTL CAN ports.

The server module can be managed via WEB and supports various network protocols, such as IP, ARP, UDP, TCP, ICMP, HTTP, Modbus TCP, Modbus RTU / ASCII, HTTPD, WebSocket, RealCOM, RFC2217, DHCP Client, DNS, etc. Its CAN port or serial port supports various network transmission modes, such as UDP, UDP Multicast, TCP Client / Server, Pair Connection Master / Slave, Modbus TCP / RTU / ASCII, Httpd Client, WebSocket Client, etc. It supports CAN and serial port interface conversion, and virtual com port function.

The 4 port embedded server module supports hardware watchdog, and reset, factory reset, designed with indicators. It features low power consumption, wide temperature range, compact modular design. The surface mounted female header is easy to easy and maintain, flexible for platemaking and customize interface connection mode. Developed with industrial components, high performance low power processor, the module can work reliably in multiple harsh environments with -40°C - + 85°C wide temperature range. The products can be widely used in industrial automation, comprehensive energy, intelligent transportation, smart city, smart mining and other fields.



Features and Benefits

- CAN port supports UDP, UDP Multicast, TCP Client/Server, Pair Connection Master/Slave, Modbus TCP Slave, Relay Mode, CAN to Serial, Httpd Client, WebSocket Client operating modes
- CAN baud rate 5kbps-1000kbps
- CAN support Normal, Loopback, Listen modes
- Support CAN ID filter
- Serial port supports UDP, UDP Multicast, TCP Client/Server, Modbus RTU Master/Slave, Modbus ASCII Master/Slave, RealCOM_MCP/CCP/MW, Pair Connection Master/Slave, Httpd Client, WebSocket Client, CAN to Serial and other conversion modes to realize conversion from serial to ethernet, CAN or Modbus RTU/ASCII protocols
- Serial baud rate 600bps-921600bps
- Support data packaging mechanism to enable conversion from CAN or serial to Ethernet
- Support serial port and CAN port communication parameters, working mode, send and receive frame counts
- Support network address static configuration and DHCP protocol dynamic acquisition
- Support user permission management
- Support the network logging, remote server monitoring
- Support online upgrade and factory reset



Specification

Software	
Serial Port Working Mode	UDP, UDP Multicast, TCP Client, TCP Server, Modbus RTU Master, Modbus RTU Slave, Modbus ASCII Master, Modbus ASCII Slave, RealCOM_MCP, RealCOM_CCP, RealCOM_MW, Pair Connection Master, Pair Connection Slave, Httpd Client, WebSocket Client, CAN to Serial
CAN Port Working Mode	UDP, UDP Multicast, TCP Client, TCP Server, Pair Connection Master, Pair Connection Slave, Modbus TCP Slave, Relay Mode, CAN to Serial, Httpd Client, WebSocket Client
System Management	DHCP Client, DNS User permission management Serial port, CAN port statistics, network log reboot Upgrade and factory reset
Interface	



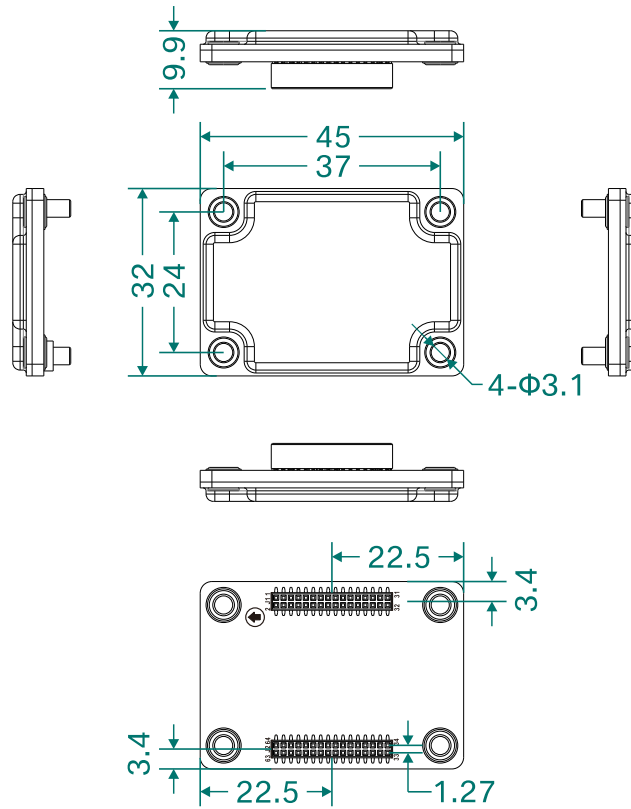
Specification

Ethernet	1×10/100Base-T(X) auto-sensing ethernet pin, full/half duplex, auto MDI/MDI-X, 1.5 kV isolation protection, built-in network transformer
TTL Serial Port	Type: 3.3V TTLport Baud rate: 600bps-921600bps Data bit: 7bit, 8bit Stop bit: 1bit, 2bit Parity bit: None, Odd, Even
TTL CAN Port	Type: 3.3V TTL CAN port Baud rate: 5kbps-1000kbps
Status LEDs	Support the RUN, Ethernet port Link/ACT, Ethernet port Speed, serial port indicator pins
Power Supply	
Input Voltage	DC 3.3V(DC 3~3.6V)
Power Consumption	<0.7W@DC3.3V (full load)
Connection	2×1.27mm pitch 2*16P surface mounted female header (pins included)
Physical Characteristic	
Dimensions	45×32×9.9 mm
Installations	Embedded mounted
Weight	15g
Working Environment	
Operating Temp	-40℃~+85℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
Certification	CE, FCC, RoHS



Dimensions

Unit: mm





Ordering Information

Standard Model	10/100M Ethernet Port	TTL Serial Port	TTL CAN Port	Input Voltage
IEM304-2D-2C	1	2	2	DC 3.3V (DC 3~3.6V)



Contact Us

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