

32×RS232/485/422 Ports, 2×1G Combo Ports, Rack-Mount Serial Server with Modbus Function

Model : MT-3232



Product Description

The MT-3232 industrial serial server can enable serial devices to communicate over an IP-based network. It transforms serial to Ethernet compatible signals that allow them to be used remotely by network-attached applications and machines. MT-3232 serial server supports 32 RS-232/485/422 serial ports to 2 gigabit Ethernet copper ports. The power supply, Ethernet port and serial port are all designed with high-level ESD, Surge, EFT protection, strong anti-interference ability, ideal for data transmission between multiple serial ports to Ethernet ports in industrial environments. The 32 RS232/485/422 ports can work independently at the same time in different working mode and baud rates range from 600bps to 460800bps. The two gigabit Ethernet combo ports can work as either gigabit copper port or gigabit fiber port. The 32port serial server integrates TCP / IP protocol stack, so that RS232/485/422 serial devices to be easily, flexibly and quickly connected to Ethernet, making industrial communication more smooth, more reliable, faster, and meet the needs of customers to improve value-added applications.

The 32-port serial server adopts rack mounting to meet the requirements of different application scenes. It is designed with industrial-grade components, featuring wide temperature and wide pressure range, lightning resistance, anti-electromagnetic interference, high reliability, high performance, suitable for operation in harsh field environment like industrial monitoring, traffic management, meteorology, water treatment, environmental monitoring, coal mine, oil, chemical, new energy industries, to help user conduct field data collection, remote monitoring, field control, etc,. It is an essential industrial communication product for the development of industrial Internet of Things.

Features

- Converts data from 32 RS232/485/422 ports to 2 gigabit Ethernet Combo ports
- Supports UDP, TCP, Modbus, HTTPD, WebSocket, MQTT, and virtual com port
- Serial port data forwarding for transparent transmission
- Modbus-RTU/ASCII to Modbus-TCP protocol conversion
- MQTT protocol for cloud connectivity across multiple platforms
- AC 85~264V/DC 110~370V input version with dual redundant power supply
- High-strength aluminum alloy shell, IP40 protection
- Fanless design for heat dissipation
- Operates in -40°C to +75°C industrial environments

Specification

Software	
Network Protocol	IP, TCP, UDP, DNS, ARP, SNMP, SSH, ICMP, HTTP, DHCP Client, RFC2217, NTP, SMTP
IP Obtaining Method	Static IP/DHCP
DNS	Support
User configuration	Web page configuration/ CONSOLE port simple network parameter configuration/ MixView batch configuration
Simple Transparent Transmission Method	UDP Client/ UDP Server/ UDP Multicast/ TCP Client/ TCP Server/ RealCOM/ Pair Connection
Modbus	Modbus RTU/ASCII to Modbus TCP
Serial Port Packaging Mechanism	Time and length can be set, the maximum packing length is 1460 bytes
TCP Server Connection	Each serial port can connect up to 8 TCP Client
TCP Client Connection	Each serial port can connect up to 8 TCP Server
Network Buffer	Send: 16Kbyte; Receive: 16Kbyte
Serial Buffer	Send: 2Kbyte; Receive: 2Kbyte
Heartbeat Package	Support TCP Keepalive mechanism, customize heartbeat packet content

Specification

Registration Package	Customize the content heartbeat packet content
RFC2217	Support
HTTPD Client	Support
WebSocket Client	<10ms
MQTT	Support Alibaba MQTT Cloud Platform as well as other standard MQTT cloud platforms
Data Encryption	Support (DES/3DES/AES/RC2/RC4/RC5/BlowFish)
SSL Encryption	Support (TLS1.0/TLS1.1/TLS1.2)
Serial to Serial Data Forwarding	Support (Prohibit, bidirectional forwarding, unidirectional forwarding, unidirectional receiving)
Transmission Delay	<10ms (average)
Supporting Software	Network management configuration tool, Vitualcom software, MixView, MaxView
Batch Upgrade	Support (via MixView software)
Batch Configuration	Support (via MixView software)
Interface	

Specification

Gigabit Combo	2* 10/100/1000BaseT(X) auto-sensing RJ45 or 1000Base SFP combo ports, copper ports support full/half duplex, auto MDI/MDI-X connection
Serial Port	Port type: 32×RS232/485/422 Connector: RJ45 Baud rate: 600bps-460800bps Data bit: 7bit, 8bit Stop bit: 1bit, 2bit parity bit: None, Odd, Even
USB	1*Type-A USB 2.0 interface
CONSOLE Port	1*CONSOLE port, RJ45 connector
Button	One-click restart, factory reset
Status LEDs	Power supply indicator, running indicator, alarm, Ethernet port indicator, serial port indicator
Power Supply	
Input Voltage	AC 85~264V / DC 110~370V, dual power supply redundancy
Power Consumption	16.2W@AC220V(full load)
Connection	AC power supply with switch
Physical Characteristic	

Specification

Dimensions	482.6×44×210 mm (mounting brackets included)
Installations	19 inn 1U rack mount installation
IP Code	IP40
Weight	2.9kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industrial Standard	
EMC	IEC 61000-4-2(ESD): Level 4 IEC 61000-4-5(Surge): Level 3 IEC 61000-4-4(EFT): Level 4
Certification	CE, FCC, RoHS

Images

