

## Mport3101 / Mport3101-I

### 1 port RS232/RS485 Serial to Ethernet Server

#### Product description

Mport3101 series products mainly realize the data transmission between Ethernet and serial port (RS-232 / RS-485). This series of products is based on the 32-bit ARM Cortex-M7 main control CPU to realize the function of one Ethernet interface and two serial ports to communicate and exchange data. This series of products converts serial devices in the field of industrial automation to the communication format of the Ethernet network, so that RS-232 / RS-485 devices that were previously unable to access the Internet can be easily and flexibly linked to the network.



#### Features:

- One 100M Ethernet electrical port and one RS232 / RS485 serial network;
- Using 32-bit Arm Cortex-M7 core CPU, up to nearly 400MHz frequency;
- External independent hardware watchdog design to prevent crashes;
- Lightning protection of Ethernet interface up to 6KV;
- RS-232 / RS-485 / RS-422 interface up to 2KV surge protection ;
- Provide industrial grade DC power supply DC9 ~ 36V input.

## Product specifications

Power supply	
Working Voltage	9~36V
Working current	37mA@12V
Network port	
Network port type	10 / 100Mbps, RJ45 interface; adaptive MDI / MDIX
Isolation protection	1.5KV isolation protection
Serial port	
Number of serial ports	1 * RS232/ RS485/ 422 working mode, choose one of three
Parameter	600 ~ 115200 (bps); 8 data bits; no, odd parity, even parity three verification methods
Reliability	
ESD	±6kV(contact); ±8kV(air)
Surge	Power supply: ±2kV / common mode, ±2kV/ differential mode
	RS485/ 422: ±2kV / common mode, ±2kV/ differential mode
	Network port: ±6kV/ common mode, ±2kV/ differential mode
EFT	Power supply: ±2kV Communication port: ±2kV
Mechanical structure	
Size	96mm*26mm* 90mm (length* height*width)
Working environment	
Operating temperature	-40°C~85°C
Storage temperature	-40°C~85°C
Relative humidity	5%~95% (no condensation)
Software parameters	
Network protocol	IPv4, TCP/UDP
IP acquisition method	Static IP
DNS	/
User configuration	Web configuration
Simple transparent transmission	TCP Server/TCP Client/UDP
Serial port packaging mechanism	Time and length can be set; The default value varies according to the bit rate; The maximum packing length is 1460 bytes.

TCP Server connection	Support up to 8 TCP connections
Network cache	Send: 4Kbyte; Receive: 4Kbyte
Serial port cache	Send: 1Kbyte; Receive: 1Kbyte;
Flow Control	/
Heartbeat bag	Support network port custom heartbeat package
Average transmission delay	<10ms
Supporting software	Management software

## Ordering information

Mport3101	1 RS232 / RS485 / 422 serial device networking server, DC9 ~ 36V wide voltage input
Mport3101-I	1 RS232 / RS485 / 422 serial isolated device networking server, DC9 ~ 36V wide voltage input