

Mport3101

1-port RS232/RS485/RS422 Serial to Ethernet Server

Product descriptions

Mport3101 series products mainly realize the data transmission between Ethernet and serial port (RS-232/RS-485/RS422). 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/RS422 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 RS-232/RS422/RS-485 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
- Support Modbus RTU/ASCII to Modbus TCP conversion
- Support Virtual COM software management

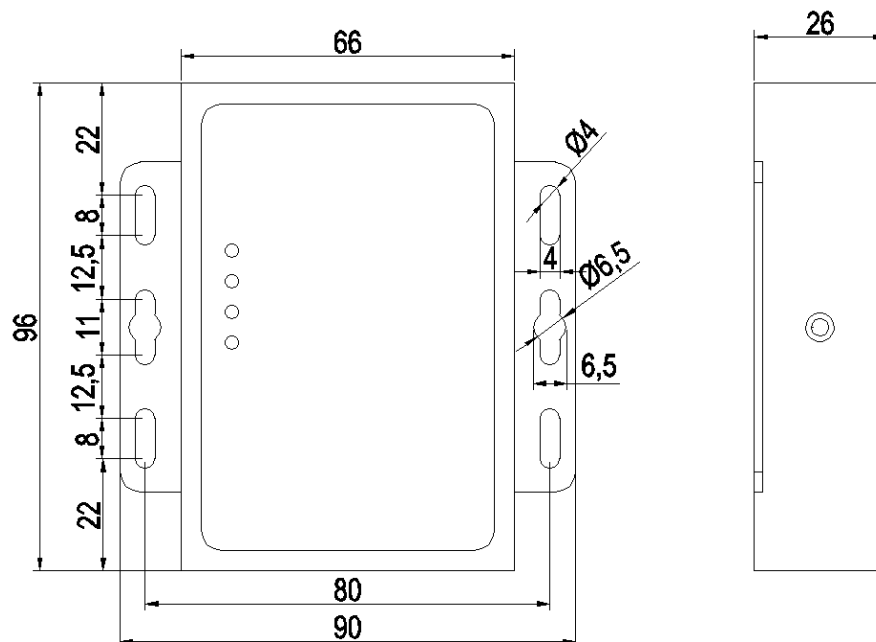
Product specifications

Model		Mport3101
Power Supply	Operating Voltage	9~36V, The power interface supports two connection methods: DC connector (2.5mm) and terminal block (2 pin 5.08mm spacing).
	Working Current	37mA@12V
	Power consumption	No-load: 25mA@12VDC; Full-load: 37mA@12VDC
Network Port	Network Port	10/100M automatic flow control; RJ45 interface; adaptive MDI/MDIX cross-connect and auto-flip
	Interface quantity:	1
	Duplex mode	full/half duplex mode self-adaption
	Isolation Protection	1.5KV
Serial Port	Serial Ports	1*RS-232/RS-485/422
	Baud rate	600~460800 (bps)
	Data bit	7, 8
	Stop bit	1, 2
	validation modes	none, odd parity, even parity
	Interface form	RS-232: adopt DB9 male; RS-485/422: adopt 5 pins 5.08mm pitch terminal blocks
Reliability	ESD	±6kV(contact); ±8kV(air)
	Surge	Power Supply: ±2kV/common mode, ±2kV/differential mode
		RS-485/422: ±2kV/common mode, ±2kV/differential mode
		Network port:±6kV/ common mode, ±2kV/ differential mode
	EFT	Power supply: ±2kV; Communication port: ± 2kV
Other	Size(L*W*H)	96×90×26 (mm)
	Housing	IP40, Metal case
	Working Environment	-40℃~+85℃, 5%~95% RH (no condensation)
	Storage Temperature	-40℃~+85℃, 5%~95% RH (no condensation)
	Relative humidity:	5%~95% (no condensation)
Software Parameters	Network protocol	IPv4, IP, TCP/UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217
	Operating 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 and other 15 communication methods are available select. The factory default setting is UDP mode.
	IP	Static IP / DHCP
	DNS	Support
	User Configuration	Web configuration
	Simple Transparent Transmission Method	TCP Server/TCP Client/UDP Client/UDP Multicast/RealCOM/Pair Connection
	Modbus	Modbus RTU/ASCII to Modbus TCP
	Serial port packaging mechanism	Time and length can be set; the default value changes according to the bit rate; the maximum packing length is 1460bytes.
	TCP Server Connection	Support up to 8 TCP connections
	Network Cache	Send: 16Kbyte; Receive: 16Kbyte;
	Serial Buffer	Send: 1.5Kbyte; Receive: 1.5Kbyte;
	Flow Control	Auto Flow Control
	Heartbeat Package	TCP Keepalive
	Registration package	Custom registration package
	RFC2217	Support
	Average Transmission Delay	<10ms
	Security Configuration Method Supporting Software	Classification of User Permissions WEB configuration management, Windows configuration tool Network Configuration Tool, VirtualCOM, MWView, MaxView
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

Impact	EN61000-4-6(CS), Level 4
Falling	EN61000-4-8, Level 5
Shock	IEC60068-2-27
	IEC60068-2-32
	IEC60068-2-6
Warranty	
Warranty	5 Years
Certification	CE, RoHS, FCC

Dimensional drawing



Ordering information

Mport3101	1- port RS232/485/422 to 1 10/100M Ethernet port wall-mounted serial server, DC9~36V power supply. Standard configuration includes power adapter, network cable, serial port cable, and metal shell.(DB9 for RS232, terminal blocks for RS485/422), support Modbus RTU/ASCII to Modbus TCP conversion
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