SERIAL DEVICE SERVER
Serial to Ethernet MODBUS

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Product Datasheet   MPN: - AT-SR-232/485-M

INTRODUCTION

The serial device server (SDS) that can make serial device be equipped with networking capability instantly. Our Device is a reliable solution for connecting Modbus TCP networks with Modbus RTU devices in industrial environments. It converts Modbus TCP requests from Ethernet to RTU over serial, and then relays the RTU responses back to the master device via Ethernet. Designed for easy integration and durability, this device enables seamless communication between modern systems and ideal for factory automation, process control, can widely use in PLC control management, Building automation System, Health Care Automation System, measuring instrument and environmental forces monitoring system.

APPEARANCE

POWER PARAMETERS

No. of Power Inputs	1
Input Voltage	VDC 9V to 36V
Input Current	80mA @24V
Reverse Voltage/ESD Protection	Yes
Short Circuit Protection	Yes
Power Isolation for RS_485	1.5 kV Galvanic
Indications	Power ON, TCP, Serial Communication, Reset

ENVIRONMENTAL LIMITS

Operating Temperature	10°C to 65°C
Storage Temperature	0°C to 85°C
Ambient Relative Humidity	5 to 95% (non-condensing)
Certifications	RoHS
IP Class	IP-54

PHYSICAL CHARACTERISTICS

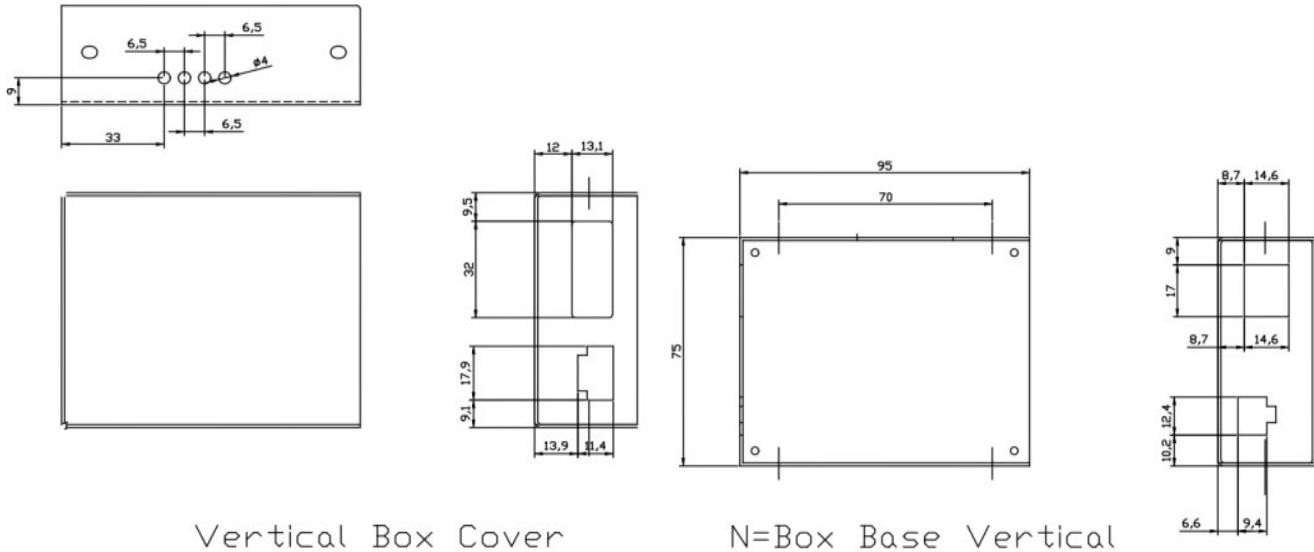|	
Housing	Metal
Dimensions	96.80mm X 78.15 mm X 34.08 mm (H X L X W)
Weight	290 g
Installation	DIN-rail mounting Panel mounting (optional & Mounting drawing needs to be requested)
MTBF time	80000 hrs , Telcordia (Bellcore) Standard

ETHERNET SPECIFICATION

10/100BaseT(X) Ports (RJ45 connector)	1 (Interface -RJ-45 Female)
Magnetic Isolation Protection	1.5 kV (built-in)
Full Duplex Mode	Support IEEE 802.3x flow control
Half Duplex Mode	Support CSMA/CD Protocol
Management	DHCP client IPv4 DNS HTTP ARP TCP/IP Telnet BOOTP ICMP
Configuration Option	Web Console (HTTP)

SERIAL SPECIFICATION

Number of ports	2
Serial Standards	RS-232/RS-485
MODBUS Support	Yes
Baud Rate	Custom (Default 115200)
Parity	None, Even, Odd
Data Bits	8, 9 bit(including parity)
Stop Bits	1, 2
Serial Signal	**RS-232**: TxD, RxD, RTS, CTS, GND & **RS-485**: 2W D+, D-,GND
Pull High/Low Resistor for RS-485	10 kilo-ohms
Terminating Resistor for RS-485	120 ohm
RS-485 Data Direction Control	ADDC (Automatic Data Direction Control)
Galvanic Isolation	2.5 kV
Reverse Voltage/ESD Protection for RS_485	Yes
Warranty	1 Year

MECHANICAL DIMENSIONS

Vertical Box Cover

N=Box Base Vertical

TIME OUT SETTINGS

Baud Rate	Number of Masters	Serial Timeout
2400	1	1000
2400	2 & 3	2000
9600	1 to 3	800
9600	Up to 6	800
19200	1, 2	400
19200	Up to 7	400
115200	Up to 7	400

Default: server timeout 1000 Ms and serial timeout 400 Msec.
Note 1: When BR increases the serial Timeout Decreases.
Note 2: When the register quantity increase the serial timeout also increases (depends on your slave response timing).
Note 3: When you increase no. of masters, also increase the response timeout of master in your application.

ORDERING INFORMATION

MPN	Description
AT-SR-232/485-M	Single Port Serial Device Server with MODBUS
AT-SR-232/485-M-P	Single Port Serial Device Server with MODBUS Panel Mounting