



4 PORT ISOLATED MODBUS RTU TO MODBUS TCP GATEWAY

DDSE SERIES



FEATURES

- CPU: MT7688AN MIPS CPU, 580 MHZ
- RAM: 128M BYTES DDR2 RAM
- ROM: 32M BYTES FLASH ROM
- OS: OPEN WRT LINUX OS
- 4 SERIAL PORTS (RS-232/422/485 AUTO DETECT)
- ISOLATION PROTECTION 3000 VDC PROVIDED
- SUPPORT 8 MODBUS TCP MASTER EACH WITH 32 SIMULTANEOUS REQUESTS
- SUPPORT 8 TCP SLAVE ON EACH RTU PORT

TECHNICAL SPECIFICATIONS

ETHERNET

Port Type	RJ-45 Connector
Speed	10 / 100 M bps Auto Detecting, Auto MDI/MDI-X
Protocol	ARP, IP, ICMP, TCP, HTTP, DHCP, NTP, FTP Modbus RTU, Modbus TCP
Setup	HTTP Browser Setup (IE & Netscape), Console
Security	Setup Password
Protection	Built-in 1.5KV Magnetic Isolation
Mode	TCP Server / TCP Client / RTU Master / RTU Slave

Note: Modbus TCP Master needed to be assigned different port nos for each Serial port e.g.502, 503, 504 & 505

SERIAL PORT

Port	232/485/422 * 4 Port
RS485 Pins	Data+, Data- (Surge Protected)
RS422 Pins	Rx+, Rx-, Tx+, Tx- (Surge Protected)
RS232 Pins	RX / TX / GND only
Speed	300 bps to 921.6 Kbps
Parity	None, Odd, Even, Mark, Space
Data Bit	5, 6, 7, 8
Stop Bit	1, 2
Connectors	4 Pin Terminal block for RS485/422 DB9 for RS232
Surge protection	600W for RS422 / 485 Port
ESD protection	15KV for all signals
Isolation	3000V DC

WIFI PORT

Standard	802.11b/g/n
Data Rate	11/54/72.2 Mbps @ 20Mhz Band Width
Modulation	DSSS, OFDM
Frequency	2.4GHz
Tx Power 11b	Max. 22dBm
Tx Power 11g/n	Max. 19dBm
Rx Sensitivity	-76dBm @ 54Mbps, -89.5dBm @ 11Mbps
Tx Rate	Max. 54Mbps with auto fallback
Tx Distance	Up to 100m
Security	WEP 64-bit / 128-bit data encryption WPA / WPA2 personal
Antenna	2 dBi, RP-SMA connector
Network Mode	Infrastructure, Ad-Hoc; Soft AP (for Setup)

POWER

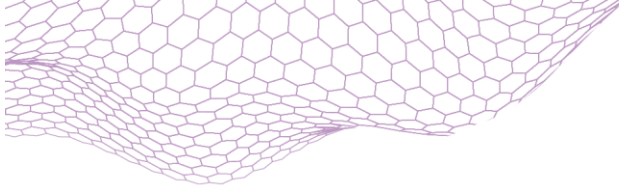
Input voltage	DC 9~32 V, 300mA@12V. Reverse Polarity Protection. Support Terminal Input & DC Jack PoE 802.3-af (Optional)
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OTHER FEATURES

Setup	HTTP Browser Setup (IE, Chrome, Firefox)
Security	Login Password
Digital Input / Output	GPIO * 8 Pins
Led Lamp	SYS, PWR, Wi-Fi, LAN, RX, TX
Reset Button	
Watch Dog Function	

PHYSICAL CHARACTERISTICS

Dimension	195 * 120 * 35mm (W * H * D)
Enclosure	Metal
Weight	660g
Mounting	Back of Panel / Provision for DIN Rail



ENVIRONMENT

Working Temperature	-20°C to +70°C
Storage Temperature	-25°C to +80°C

ORDERING INFORMATION

DDSE I 4 M K

DDSE	Databridge Dynamic Serial to Ethernet Converter
I	Isolated Version
4	4 Port * RS232/485/422
M	Supporting Modbus RTU to Modbus TCP Conversion
K	Fixed

DATA BRIDGE
D Y N A M I C