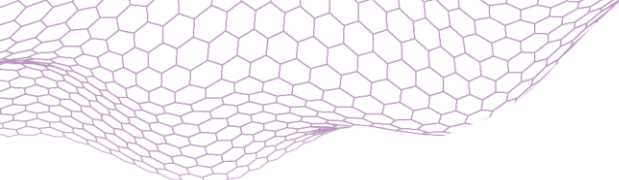


8 PORTS ISOLATED RS232/RS485/RS422 MODBUS TCP GATEWAY

DDSE SERIES





SYNOPSIS

- DDSE I M 8 U TD IS ISOLATED MODBUS GATEWAY DESIGNED FOR INTEGRATING MODBUS RTU/ASCII AND MODBUS TCP NETWORKS.
- IT SUPPORTS WALL MOUNTING OR DESKTOP MOUNTING TO MEET THE REQUIREMENTS OF DIFFERENT APPLICATION SCENES.
- HARDWARE IS FANLESS WITH LOW POWER CONSUMPTION, WIDE TEMPERATURE AND VOLTAGE SUPPORT.
- IT HAS PASSED RIGOROUS INDUSTRIAL STANDARD TESTS, WHICH CAN SUIT FOR THE INDUSTRIAL SCENE ENVIRONMENT WITH HARSH REQUIREMENTS FOR EMC.
- IT CAN BE WIDELY USED IN PLC CONTROL AND MANAGEMENT, BUILDING AUTOMATION SYSTEM, HEALTH CARE AUTOMATION SYSTEM, MEASURING INSTRUMENT AND ENVIRONMENTAL FORCES MONITORING SYSTEM, ETC.

FEATURES

- 2 * 10/100BASE-T(X) ETHERNET INTERFACES AND PROVIDE DUAL IP AND MAC ADDRESSES MEETING THE REQUIREMENT OF MULTI NETWORK MANAGEMENT OR NETWORK BACKUPS
- NETWORK MODES SUCH AS REDUNDANT MODE, SWITCHING MODE AND DUAL IP MODE
- CONVERSION BETWEEN MODBUS RTU/ASCII AND MODBUS TCP PROTOCOL
- SUPPORT RTU MASTER, RTU SLAVE, ASCII MASTER, ASCII SLAVE AND OTHER OPERATING MODES
- SUPPORT UP TO 256 MODBUS TCP CLIENT (MASTER) ACCESSES AND CONNECT UP TO 128 MODBUS TCP SERVER (SLAVE) DEVICES
- SUPPORT VIRTUAL AND REAL ID MAPPING TO ACHIEVE FLEXIBLE ACCESS BETWEEN MASTER AND SLAVE DEVICES
- SUPPORT IP ADDRESS AND MAC ADDRESS FILTERING, WHICH CAN ACHIEVE ACCURATE ACCESS CONTROL EASILY
- SSHD AND HTTPS CAN GUARANTEE THE ACCESS SECURITY OF DATA
- GRADED USER MANAGEMENT TO IMPLEMENT HUMANIZED AUTHORITY MANAGEMENT
- MULTIPLE CONFIGURATION LIKE WINDOWS CONFIGURATION TOOL, TELNET, SSHD AND WEB
- SUPPORT MULTIPLE ALARM METHODS, INCLUDING E-MAIL ALARM, LOG ALARM AND SNMP TRAP ALARM
- CONDUCT NETWORK DIAGNOSIS AND TROUBLESHOOTING VIA PING AND TRACEROUTE
- SUPPORT 8 OF RS232/485/422 SERIAL PORTS
- SUPPORT 110BPS TO 115200BPS LINE SPEED AND NON-BLOCKING COMMUNICATION
- SUPPORT RTS/CTS, DTR/DSR AND XON/XOFF FLOW CONTROL
- SUPPORT RESPONSE TIMEOUT SETTING OF CHARACTERS
- SUPPORT SERIAL PORT STATUS AND PARAMETERS MONITORING, ENSURING THE COMMUNICATION STATUS IS EASY TO READ
- SUPPORT 12 TO 48VDC POWER SUPPLY INPUT
- SUPPORT -40 TO 75°C WIDE OPERATING TEMPERATURE RANGE

TECHNICAL SPECIFICATIONS

ETHERNET

Standard	10Base-T, 100Base-TX
Protocol	TCP, IP, UDP, ARP, HTTP, TELNET, SNMP, ICMP, DHCP, DNS, Modbus RTU/TCP, IPv4, IPv6
Rate	10/100M Automatic Flow Control, MDI/MDI-X Auto Tunning
Ports	2
Connector	RJ45
Duplex mode	Full/Half Duplex Mode Auto adjustable

SERIAL PORT

Standard	EIA RS-232C, RS-485, RS-422
Protocol	Modbus RTU/ASCII
Ports	8 3IN1 serial ports
RS-232 signal	DSR, RTS, GND, TXD, RXD, DCD, CTS, DTR
RS-485 signal	D+, D-, GND
RS-422 signal	T+, T-, GND, R+, R-
Baud rate	110-115200bps
Data bit	7bit, 8bit
Parity bit	None, Even, Odd, Space, Mark
Stop bit	1bit, 2bit
Connectors	RJ45
Flow control	RTS/CTS, DTR/DSR, XON/XOFF
Directional control	Automatic Data Direction Control
Pull high/low resistor	4.7kΩ
Isolation	3KVDC/2KVrms Electromagnetic
Modes	RTU Master, RTU Slave, ASCII Master and ASCII Slave
Modes	Support up to 256 Modbus TCP client (Master) accesses and connect up to 128 Modbus TCP server (slave) devices

OTHERS

Management	IPv4, IPv6, WEB, TELNET, Windows tool, SSHD configuration
Security	User right classification, IP address filtering, MAC address filtering, SNMP/Mail /System Log alarm, HTTP/HTTPS/SSHD/TELNET access control
Indicator	Power supply, LINK/ACT, Ethernet port, Serial port

POWER

Power Input	12 to 48VDC, 3-pin 5.08mm pitch terminal blocks Reverse Polarity Protection
Power Consumption	No-load: 3.4W@12VDC, Full-load: 4.1W@12VDC

MECHANICAL

Dimension	170mm×32.6mm×110mm (W x H x D)
Ingress Protection	IP30 protection, Metal
Installation	Wall or desktop mounting. DIN rail accessories
Weight	≤ 590g

DIP SWITCH FOR FACTORY DEFAULTS.

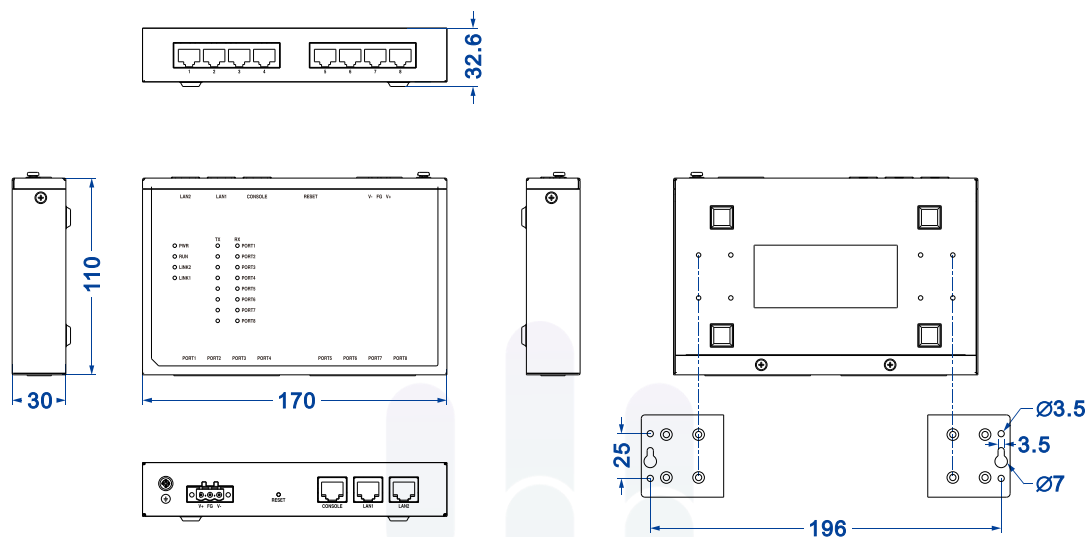
ENVIRONMENT

Working Temperature	-40°C to 75°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% non-condensing

APPROVALS & STANDARDS TESTED FOR

IEC 61000-4-2	(ESD, electrostatic discharge), Level 3 Air discharge: ±8kV Contact discharge: ±6kV
IEC 61000-4-4	EFT, electrical fast transient pulses), Level 3 Power supply: ±2kV Signal: ±1kV
IEC 61000-4-5	Surge), Level 3 Power supply: common mode±2kV, differential mode±1kV Signal: common mode ±1kV, differential mode ±1kV
IEC 60068-2-27	Shock
IEC 60068-2-32	Drop (Freefall)
IEC 60068-2-64	Vibration

DIAMENSIONS



ORDERING INFORMATION

DDSE I M 8 U TD

DDSE	Databridge Dynamic Base model for Serial to Ethernet
I	Isolated Serial Ports
M	Modbus RTU / Modbus Protocol support
8	8 Port RS232/RS485/RS422 to-Dual Ethernet
U	RS232/485/422 3 in 1 Serial Ports
TD	Fixed