



8/16 PORT RACK MOUNTED MODBUS SECURED RS232/485/422 TO DUAL ETHERNET TERMINAL SERVER

DDSE SERIES



SYNOPSIS

- DDSE I NI MS 8_16 TD IS THE MODBUS GATEWAY DESIGNED SPECIFICALLY FOR INTEGRATING MODBUS RTU/ASCII AND MODBUS TCP NETWORKS.
- THE DEVICE SUPPORTS MULTIPLE NETWORK PROTOCOLS, SUCH AS MODBUS, IPV4, IPV6, TCP, UDP, LLDP, RFC2217, TELNET, ARP, ICMP, ICMPV6, HTTP, HTTPS, SNMP, SSH, SMTP, SNTP, DNS, BOOTP, DHCP, AND DHCPV6

FEATURES

- SUPPORT 2 10/100BASE-T(X) SELF-ADAPTIVE ETHERNET INTERFACES AND PROVIDE DUAL IP AND MAC ADDRESSES TO MEET THE REQUIREMENTS OF MULTI-NETWORK MANAGEMENT OR NETWORK BACKUPS.
- SUPPORT MODBUS GATEWAY AND SERIAL PORT SERVER FUNCTION SWITCH, TO ACHIEVE THE SWITCH BETWEEN MODBUS RTU/ASCII AND MODBUS TCP PROTOCOL, OR SERIAL PORT AND ETHERNET DATA SWITCH.
- SUPPORT NETWORK MODES SUCH AS REDUNDANT MODE, SWITCHING MODE AND DUAL IP MODE, AND SUPPORT IPV4 AND IPV6 ADDRESS PROTOCOLS, MEETING THE NEEDS OF VARIOUS NETWORK ENVIRONMENTS.
- SUPPORT MULTIPLE ALARM METHODS, INCLUDING E-MAIL ALARM, LOG ALARM AND SNMP TRAP ALARM
- SUPPORT MULTIPLE ALARM EVENTS, INCLUDING POWER SUPPLY CONNECTION, NETWORK PORT CONNECTION, WARM START, COLD START AND MODE NETWORK CONNECTION
- NETWORK DIAGNOSIS AND TROUBLESHOOTING COULD BE CONDUCTED VIA PING, TRACEROUTE AND PACKET CAPTURE DIAGNOSIS.
- SUPPORT STATIC ROUTING, ROUTING TABLE COULD BE ADDED MANUALLY
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TECHNICAL SPECIFICATIONS

ETHERNET

Ports	2-port
Standard	10Base-T, 100Base-TX
Rate	10/100M Auto Flow control, MDI/MDI-X Auto tuning
Interface	RJ45
Protocol	Modbus, IPv4, IPv6, TCP, UDP, LLDP, RFC2217, TELNET, ARP, ICMP, ICMPv6, HTTP, HTTPS, SNMP, SSH, SMTP, SNTP, DNS, BOOTP, DHCP, DHCPv6
Duplex Mode	Full/half duplex mode self-adaption
Electromagnetic isolation strength	1.5kVDC

SERIAL

Standard	EIA RS-232C, RS-485, RS-422
Quantity of serial port	8/16/32 3IN1 serial ports
RS-232 signal	RXD, TXD, DTR, GND, DSR, RTS, CTS, DCD
RS-485 signal	D+, D-, GND
RS-422 signal	T+, T-, GND, R+, R-
Baud rate	110bps-921600bps
Data bit	5bit, 6bit, 7bit, 8bit
Parity bit	None, Even, Odd, Space, Mark
Stop bit	1bit, 1.5bit, 2bit
Interface form	RJ45
Flow control	RTS/CTS, DTR/DSR, XON/XOFF
Direction control	RS-485 direction adopts Automatic Data Direction Control (ADDC)
Transmission distance	RS-232, 15m. RS-485/422, 1200m
Electromagnetic isolation strength	2kVDC
Load Capacity and Resistance (8/16 3IN1 serial port)	Pull up/down resistance for RS-485: 1kΩ or 150kΩ, controlled by DIP switch Terminating resistance for RS-485: 120Ω, controlled by DIP switch Load capacity: RS-485/422 end supports 256-node polling environment
Serial Server Mode	Each serial port can simultaneously establish up to 8 TCP/UDP session connections, support work modes such as RealCom, Reverse RealCom TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast, Telnet, Reverse Telnet, RFC2217, Redundant COM, DRDAS RealCom and DRDAS TCP Server
Modbus Gateway Mode	support up to 256 Modbus TCP client (Master) device accesses, connect to 128 Modbus TCP server (Slave) devices, support RTU Master, RTU Slave, ASCII Master and ASCII Slave work modes

OTHER

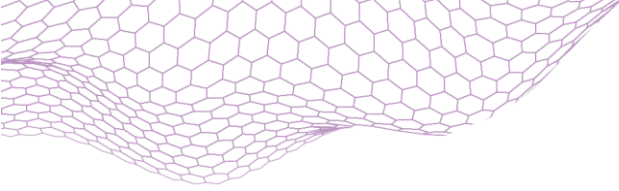
Console Port	CLI Command Line Management port (RS-232), RJ45
Configuration Method	WEB configuration management, TELNET configuration, Windows configuration Tool, SSHD configuration
Security	User rights classification, IP address Filtering, MAC address Filtering, SNMP/mail/System Log alarm, HTTP/HTTPS/SSHD/TELNET access control
Indicator	Power indicator, Ethernet port indicator, Serial port indicator, Running indicator

APPROVALS & STANDARDS TESTED FOR

IEC 61000-4-2	Electrostatic Discharge: $\pm 8\text{kV}$ (contact), $\pm 15\text{kV}$ (air)
IEC 61000-4-4	Electrical Fast Transient Power supply: $\pm 4\text{kV}$ Ethernet port: $\pm 2\text{kV}$ Serial port: $\pm 2\text{kV}$
IEC 61000-4-5	Surge Immunity Power supply: Common mode $\pm 4\text{kV}$, Differential mode $\pm 2\text{kV}$ Ethernet port: Common mode $\pm 4\text{kV}$, Differential mode $\pm 2\text{kV}$ Serial port: Common mode $\pm 4\text{kV}$, differential mode $\pm 2\text{kV}$
IEC 60068-2-27	Shock
IEC 60068-2-32	Freefall
IEC 60068-2-6	Vibration

POWER

Power supply	85 to 265V AC / 100 to 220VDC Dual power supply Redundancy, AC power supply socket with switch for both AC DC input
Power Consumption	No-load: 3.0W@220VAC Full load: 3.9W@220VAC



ENVIRONMENT

Operating temperature	-40 to 75°C
Storage temperature	-40 to 85°C
Relative humidity	5% to 95% (no condensation)

MECHANICAL

Ingress Protection	IP40
Housing	Metal
Installation	Rack mounting
Dimension (W x H x D):	440mm×44mm×265.6mm
Weight	2622gm

ORDERING CODE

DDSE I MS 8/16 TD

DDSE	Databridge Dynamic Serial to Ethernet Gateway
I	I : Isolated
MS	Modbus Secured
8/16	8 or 16 Port * RS232/422/485
TD	Fixed