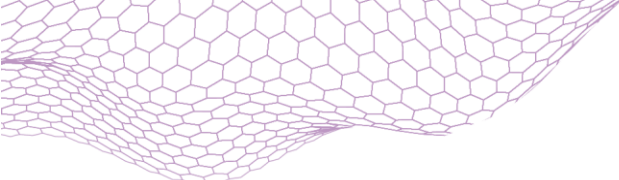




8/16 PORT RACK MOUNTED SECURED RS232/485/422 TERMINAL SERVER

DDSE SERIES



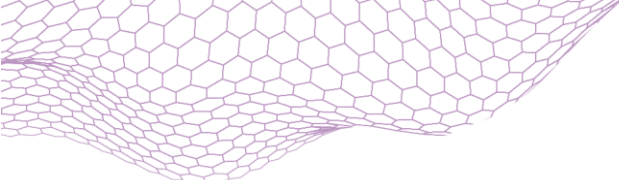


SYNOPSIS

- DDSE I S 8_16 TD SERIES ARE THE SERIAL DEVICE SERVERS THAT CAN MAKE SERIAL DEVICE BE EQUIPPED WITH NETWORKING CAPABILITY INSTANTLY AND CENTRALLY MANAGE THE SCATTERED SERIAL DEVICES AND HOSTS VIA NETWORK.
- THIS PRODUCT SUPPORTS 8/16 RS-232/485/422 SERIAL PORTS TO 2 100M ETHERNET COPPER PORTS.
- IT ADOPTS RACK MOUNTING TO MEET THE REQUIREMENTS OF DIFFERENT APPLICATION SCENES.
- SERIAL DEVICE SERVER SUPPORTS MULTIPLE NETWORK PROTOCOLS, SUCH AS TCP, UDP, RFC2217, TELNET, ARP, ICMP, HTTP, HTTPS, SNMP, SSH, SMTP, SNTP, DNS, BOOTP AND DHCP PROTOCOL.
- IT ALSO POSSESSES COMPLETE MANAGEMENT FUNCTIONS, INCLUDING ACCESS CONTROL, RAPID CONFIGURATION, ONLINE UPGRADING AND SO ON.
- EACH SERIAL PORT SUPPORTS 4 TCP OR UDP SESSION CONNECTIONS, AND IT ALSO SUPPORTS 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 WORK MODES AND TELNET, WEB AND SSHD ACCESS MODES.
- THIS PRODUCT SUPPORTS OPTIONAL OLED DISPLAY, WHICH COULD CONDUCT IP ADDRESS CONFIGURATION WITHOUT USING EXTERNAL DEVICE. SD CARD CAN ACHIEVE SOFTWARE UPGRADE OF THE DEVICE.
- THE DEVICE SUPPORTS ONE-CLICK RESTART AND FACTORY RESET.
- THE COVER DIP SWITCH OF THE 8/16 3IN1 SERIAL PORT SUPPORTS ADJUSTING THE PULL-UP RESISTOR AND TERMINATION RESISTOR OF THE SERIAL PORT.
- HARDWARE ADOPTS FANLESS, LOW POWER CONSUMPTION, WIDE TEMPERATURE AND VOLTAGE DESIGN.

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 110BPS TO 921600BPS LINE SPEED AND NON-BLOCKING COMMUNICATION
- SUPPORT 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, DRDAS TCP SERVER AND OTHER OPERATING MODES
- SUPPORT OPTIONAL OLED DISPLAY THAT COULD CONFIGURE DEVICE IP ADDRESS
- SUPPORT CROSS-GATEWAY AND CROSS-ROUTER COMMUNICATION
- SUPPORT MULTIPLE HOSTS POLLING MODE, WHICH ALLOWS MULTIPLE HOSTS TO ACCESS THE SAME SERIAL PORT
- SUPPORT DELIMITER MATCHING COMMUNICATION, ACHIEVING VARIOUS DEMANDS FOR SERIAL PORT PACKAGING
- SUPPORT FIFO, COMPATIBLE WITH VARIOUS OLD TYPE TERMINAL DEVICES
- SUPPORT IP ADDRESS AND MAC ADDRESS FILTERING, WHICH CAN ACHIEVE ACCURATE ACCESS CONTROL EASILY
- SUPPORT IPV4 ANF IPV6 ADDRESSING

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- SUPPORT CLASSIFICATION OF USER MANAGEMENT TO REALIZE HUMANIZED PERMISSION MANAGEMENT
 - SUPPORT SERIAL PORT STATUS, PARAMETERS, AND COMMUNICATION STATISTICAL MONITORING, MAKING THE COMMUNICATION STATUS EASY TO READ
 - SUPPORT RTS/CTS, DTR/DSR AND XON/XOFF FLOW CONTROL
 - SUPPORT VIRTUAL SERIAL PORT DRIVE ACCESS MODE AND AUTOMATIC CONNECTION RECOVERY AFTER NETWORK INTERRUPTION
 - FLEXIBLE SERIAL PORT DATA FRAMING SETTING, WHICH CAN SATISFY USER'S VARIOUS DEMANDS FOR DATA PACKETS SEGMENTATION
 - SUPPORT STANDARD TCP/IP SOCKET APPLICATION ACCESS
 - TCP SUPPORTS MULTI-CONNECTION, WHICH ALLOWS MAXIMUM 4 USERS TO MONITOR OR MANAGE THE SERIAL DEVICE SIMULTANEOUSLY
 - UDP SUPPORTS SINGLE MACHINE OR MULTI-MACHINE COMMUNICATION, WHICH ALLOWS MULTIPLE USERS TO MONITOR OR MANAGE THE SERIAL DEVICE SIMULTANEOUSLY
 - SUPPORT TELNET AND REVERSE TELNET MODES, BUILD TELNET PROTOCOL SESSION TO REALIZE THE CONVERSION OF SERIAL PORT DATA AND ETHERNET DATA BETWEEN TERMINAL DEVICE AND SERVER
 - SUPPORT RFC2217 PROTOCOL, WHICH CAN MAKE SERIAL PORT PRESENT IN THE HOST AS LOCAL COM PORT
 - SUPPORT MULTIPLE CONFIGURATION FORMS LIKE WINDOWS CONFIGURATION TOOL, TELNET, SSHD AND WEB
 - SSHD AND HTTPS CAN GUARANTEE THE ACCESS SECURITY OF DATA
 - SUPPORT MULTIPLE ALARM METHODS, INCLUDING E-MAIL ALARM, LOG ALARM AND SYSTEM ALARM
 - SUPPORT MULTIPLE ALARM EVENTS INCLUDING POWER SUPPLY CONNECTION, WARM START, COLD START, DCD AND DSR
 - CONDUCT NETWORK DIAGNOSIS AND TROUBLESHOOTING VIA PING AND TRACEROUTE
 - SUPPORT ARP FUNCTION, WHICH CAN AVOID THE FAILURE OF COMMUNICATION DUE TO THE MAC ADDRESS OF SERIAL SERVER BEING AGED BY SWITCH OR ROUTER.
 - SUPPORT STATIC ROUTING, ROUTING TABLE COULD BE ADDED MANUALLY

TECHNICAL SPECIFICATIONS

ETHERNET

Ports	2-port
Standard	10Base-T, 100Base-TX
Rate	10/100M, Auto Negotiation, Automatic Flow Control, Auto MDI/MDI-X
Interface	RJ45
Work Mode	Each serial port can simultaneously establish up to 4 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
Protocol	TCP, UDP, ARP, HTTP, HTTPS, TELNET, ICMP, SMTP, SNTPDHCP, DNS
Duplex Mode	Full/half duplex mode self-adaption

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 supports 256-node polling environment

Load Capacity Resistance (32 3IN1 serial port):

- Pull up/down resistance for RS-485: 10kΩ
- Load capacity: RS-485/422 supports 32-node polling environment

OTHER

Console Port	CLI Command Line Management port (RS-232), RJ45
RESET	Short press with a needle shaped tool to restore factory configuration
OLED Display	Menu/Exit, page up, page down, select/confirm
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 transmission indicator, Serial port receiving indicator, Running indicator

APPROVALS & STANDARDS TESTED FOR

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

POWER

Power supply	85 to 265VAC / 100 to 300V DC Dual power supply Redundancy, AC power supply socket with switch
Power Consumption	DDSE I S 8_16 TD-2T-32DI(3IN1)-RJ-2P(85-265VAC) No-load: 7.3W@220VAC Full load: 7.97W@220VAC

ENVIRONMENT

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

MECHANICAL

Ingress Protection	IP30
Housing	Metal
Installation	Rack mounting
Dimension (W x H x D):	441.6mm×44.6mm×207.9mm (without lugs)
Weight	3.04kg

ORDERING CODE

DDSE I S 8/16 TD

DDSE	Databridge Dynamic Base model for Serial to Ethernet
I	I: isolated version
S	Secured
8/16	8 or 16 Port * RS232/422/485
TD	Fixed