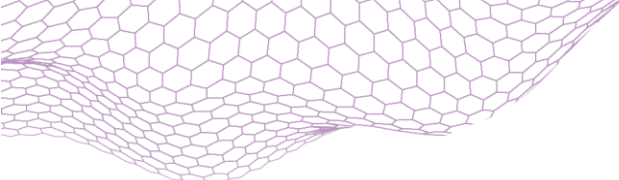




16 PORT RACK MOUNTED SECURED RS232/485/422 TERMINAL SERVER

DDSE SERIES





SYNOPSIS

- DDSE I NI S 16 TD IS SECURE ISOLATED RS232/RS485/RS422 TERMINAL SERVER THAT CAN ENABLE SERIAL DEVICES EQUIP WITH NETWORKING CAPABILITY INSTANTLY AND CENTRALLY MANAGE SERIAL DEVICES AND HOSTS VIA NETWORK.
- THIS PRODUCT SUPPORTS UPTO 16 ISOLATED RS232/485/422 SERIAL PORTS TO 2 OF 100M ETHERNET COPPER PORTS.
- IT IS A 19" RACK MOUNTING DESIGN

FEATURES

- ARM 8, 1GHZ VERY FAST CPU, LATEST DESIGN
 - 512MB MEMORY FOR CONFIGURATION & SERIAL DATA STORAGE
 - ISOLATED, IP40, SECURE AND LEVEL 4 ESD/EFT/SURGE BEST IN CLASS DESIGN
 - SUPPORT DELIMITER MATCHING COMMUNICATION, ACHIEVING VARIOUS DEMANDS FOR SERIAL PORT PACKAGING
 - SUPPORT FIFO, COMPATIBLE WITH VARIOUS OLD TYPE TERMINAL DEVICES
 - SUPPORT SERIAL PORT STATUS, PARAMETERS AND ERROR INFORMATION MONITORING, ENSURING COMMUNICATION STATUS BE AVAILABLE AT A GLANCE
 - COMPATIBLE WITH VARIOUS VIRTUAL SERIAL PORT MANAGEMENT SOFTWARE
 - FLEXIBLE SERIAL PORT DATA FRAMING SETTING, WHICH CAN SATISFY USER'S VARIOUS DEMANDS FOR DATA PACKETS SEGMENTATION
 - SUPPORT STANDARD TCP/IP SOCKET APPLICATION ACCESS
 - SUPPORT RFC2217 PROTOCOL, WHICH CAN MAKE SERIAL PORT PRESENT IN THE HOST AS LOCAL COM PORT.
 - LOW POWER CONSUMPTION AND FAN LESS HARDWARE
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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
Isolation	1.5KV Magnetic Isolation
Protocol	IPv4, IPv6, TCP, ICMP, ARP, UDP, DHCP, BootP, HTTP, HTTPS, SMTP, SNMP v1, v2, v3, DNS, NTP, TELNET, SSL, SSH, RFC2217
Multi host	Allows maximum 6 users to monitor or manage the Serial device simultaneously
Duplex mode	Full/Half Duplex Mode

- DUAL IP AND DUAL MAC ADDRESSES TO MEET THE REQUIREMENTS OF MULTI-NETWORK MANAGEMENT OR NETWORK BACKUPS. SUPPORT REDUNDANT & DUAL SUBNET MODE

Dual Subnet Mode	Subnet is a logically visible subdivision of an IP network. The LAN 1 and LAN2 can be assigned to different subnets. This feature gives the user flexible network manageability. Separate IP's. Different Class
Redundancy Mode	Eliminate network downtime caused by a single point of failure. The LAN1 and LAN2 can be assigned to the same IP network. It will enable the network to recover rapidly from failure and fault

SERIAL

Serial port	16 Serial ports, RS232/RS485/RS422
Isolation	2.5KV DC
Baud Rate	300 to 921kbps
Parity	None, Odd, Even, Mark, Space
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Interface	RJ45
Flow Control	None, DTR/DSR, Software: Xon/XOff, Hardware: RTS/CTS
Direction control	RS485 direction adopts Automatic Data Direction Control (ADDC)
Load capacity	RS485/422 supports 32 devices

Distance	RS232, 15m; RS485/422, 1200m
Pull high/low resistor for RS485	4.7kΩ
Offline Port Buffering	128Kb

SERIAL SIGNALS

RS232 signal	RXD, TXD, DTR, GND, DSR, RTS, CTS, DCD
RS485 signal	D+, D-, GND
RS-422 signal	T+, T-, GND, R+, R-

DISPLAY

**Optional. OLED type. 2 Lines,
16 Characters per line, 4 Keys**

SOFTWARE

Management	CLI command line management port (RS232), RJ45 IPv4, IPv6, WEB, TELNET, Windows, SSHD configuration and Management tools
Work modes	RealCom, Reverse RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Range, UDP Multicast, Telnet, Reverse Telnet, RFC2217, Redundant COM, DRDAS RealCom and DRDAS TCP Server
Diagnostics	Link Status, Syslog, PING, Traceroutes
Security	IP address filtering, MAC address filtering, HTTP/HTTPS console, TELNET console for higher Access Control & Security, SSH v2, TLS v1.0, 1.2, SSL v2.0, 3.0, "Secure Mode" in TCP Client/Server mode. SSH is used to access the device and Config / Monitor device with CLI command. It is used less in Serial device.
Alarms	Advanced AAA Security and encryption Email, Log alarm and System Alarms for Power Supply, Warm Start, Cold Start, DCD and DSR
Operating System	Windows 2000/XP/2003/Vista/2008/7, Windows 2010/2016, Linux (kernel 5.0-5.4)
Firmware Upgrade	Online, TFTP Server

OTHERS

Watch Dog Timer	
SD Card	For configuration, upload and download
Indicators	Power supply indicator, Ethernet port indicator, Serial port indicator, Run indicator
Console Port	RJ45, Rear side
Factory Default	Reset DIP Switch
MTBF	> 300,000 hrs
Heat Load	34.12 BTU/Hr

PROTECTION

ESD	+/- 8 KV, +/- 15 KV
EFT/Burst	Power line: AC: 4 KV, DC: 4 KV, Serial Port : ± 4 kV, Ethernet Port: 2 KV
Surge	Serial & Ethernet Port: 4KV (L to E) AC Power: 4KV L/N to E & 2KV L to N. DC Power: 4 KV L/N to E) & 2KV L to N

POWER

Power supply	85 to 265V AC/DC Dual Redundant. AC power supply socket with switch 24/48V DC Dual Redundant (to be launched shortly)
No-load	5.6W @220VAC
Full load	13.2W@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	440mm×44mm×265.6mm. W x H x D, 19", 1U
Weight	3.04kg

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 AC Power Port: $\pm 2.0\text{kV}$ Data Port: $\pm 2.0\text{kV}$
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
CE, FCC, RoHS	Others

ORDERING CODE

DDSE I/NI S 16 XX TD

DDSE	Databridge Dynamic Base model for Serial to Ethernet
I/NI	I: Isolated NI: Non-Isolated
S	Secured
16	16 Port * RS232/422/485
XX	AC for 85 to 265V AC/DC Dual Redundant. DC for 24/48V DC Input (to be launched shortly)
TD	Fixed

