



32 PORT RS232/485/422 TO 2 GIGA COMBO ETHERNET MODBUS INDUSTRIAL GATEWAY

DDSE GIGA SERIES



SYNOPSIS

- THE DDSER NI MS 32 2GC XX ME IS A RACK-MOUNT INDUSTRIAL SERIAL DEVICE SERVER FEATURING 32 RS-232/RS-485/RS-422 SERIAL PORTS, DUAL GIGABIT COMBO ETHERNET PORTS, AND INTEGRATED MODBUS PROTOCOL SUPPORT.

FEATURES

- CONVERTS DATA FROM 32 RS-232/RS-485/RS-422 SERIAL PORTS TO DUAL ETHERNET PORTS.
- SUPPORTS MULTIPLE COMMUNICATION PROTOCOLS INCLUDING UDP, TCP, MODBUS RTU, MODBUS TCP, IEC 101, HTTPD, WEBSOCKET, MQTT, AND VIRTUAL COM PORT.
- PROVIDES TRANSPARENT SERIAL DATA FORWARDING FOR RELIABLE END-TO-END COMMUNICATION.
- SUPPORTS MODBUS RTU/ASCII TO MODBUS TCP PROTOCOL CONVERSION.
- ENABLES CLOUD CONNECTIVITY ACROSS MULTIPLE PLATFORMS THROUGH MQTT PROTOCOL SUPPORT.
- WIDE-RANGE AC (85–264 V) OR DUAL REDUNDANT DC 48V DC INPUT POWER SUPPLY.
- HIGH-STRENGTH ALUMINUM ALLOY ENCLOSURE WITH IP40 PROTECTION.
- FANLESS THERMAL DESIGN.
- OPERATING TEMPERATURE RANGE OF –40°C TO +75°C.

TECHNICAL SPECIFICATIONS

SOFTWARE

Network Protocol	IP, TCP, UDP, DNS, ARP, SNMP, SSH, ICMP, HTTP, DHCP Client, RFC2217, NTP, SMTP
IP Obtaining Method	Static IP/DHCP
DNS Resolution	Support
User Configuration	Web page configuration/CONSOLE port simple network parameter configuration/Mix View batch configuration
Simple Transparent Transmission Method	UDP / UDP Multicast / TCP Client / TCP Server / RealCOM / Pair Connection
Modbus	Modbus RTU /ASCII to Modbus TCP
Serial Port Data Packaging	Time and length can be set; the maximum pack length is 1460 bytes
TCP Server Connection	Each serial port can connect to 8 TCP Client
TCP Client Connection	Each serial port can connect to 8 TCP Server
Network Buffer	Send: 16Kbyte; Receive: 16Kbyte

Serial Buffer	Send: 2Kbyte; Receive: 2Kbyte
Heartbeat Package	Support TCP Keep Alive Mechanism Custom heartbeat package content
Registration Package	Customize the registration package content
RFC2217	Support
HTTPD Client	Support
WebSocket Client	Support
RealCOM	Support
MQTT	Support
Data Encryption	Support (DES/3DES/AES/RC2/RC4/RC5/BlowFish)
SSL Encryption	Support (TLS1.0/TLS1.1/TLS1.2)
Serial to Serial Data Forwarding	Support (Prohibit, bidirectional forwarding, unidirectional forwarding, unidirectional receiving)
Transmission Delay	<10ms (average)
Supporting Software	Network management configuration tool, Virtualcom
Batch Upgrade	Support
Batch Configuration	Support

DATA BRIDGE

INTERFACE

Gigabit Combo	2* 10/100/1000BaseT(X) Auto-sensing RJ45 or 1000Base SFP combo ports, Copper ports support full/half duplex, Auto MDI/ MDI-X connection
Serial Port	Port type : 32×RS232/485/422 Connector : RJ45 Baud rate : 600bps to 460800bps Data bit : 7bit, 8bit Stop bit : 1bit, 2bit parity bit : None, Odd, even
USB	1 * Type-A USB 2.0 interface
Console Port	1* CONSOLE port, RJ45 Connector
Button	One-click restart, factory reset
Status LED	Power supply indicator, Running indicator, Alarm, Ethernet port indicator, Serial port indicator

POWER

Input Voltage	1 * AC 85 to 264V / DC 110 to 370V Dual Redundancy 48V DC
Power Consumption (full load)	16.2W@AC220V (full load)
Connection	AC power supply with switch 3 / 5 pin screw type terminals for Single / Dual 48V DC

MECHANICAL

Ingress Protection	IP40
Installation	19 in 1U rack mount installation
Dimension	482.6×44×210 mm (mounting brackets included)
Weight	2.9kg

ENVIRONMENT

Operating temperature	-40 to 75°C
Storage temperature	-40 to 85°C
Relative humidity	5% to 95% (non-condensing)

APPROVALS & STANDARDS TESTED FOR

IEC 61000-4-2	Electrostatic Discharge, Level 4
IEC 61000-4-5	Surge Immunity, Level 3
IEC 61000-4-4	EFT, Level 4
Certification	CE, FCC, RoHS

ORDERING CODE

DDSER NI MS 32 2GC XXX ME

DDSER	Serial to Giga Ethernet Rack Type Converter
NI	Non-Isolated Serial ports
MS	Secured Modbus RTU to Modbus TCP
32	32* RS232/485/422 Ports
2GC	2* 10/100/1000BaseT(X)
XXX	230: AC 85 to 264V or 110: DC 110 to 370V 48: Dual/Redundant DC 48 V
ME	Fixed

DATA BRIDGE
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