



32 PORT SERIAL DEVICE SERVER

DDSE G SERIES



SYNOPSIS

- THE DDSE G 32 SERIAL DEVICE SERVERS CAN CONNECT 32 SERIAL PORTS TO AN ETHERNET NETWORK.
- IT SUPPORTS RS232/RS485/RS422 SERIAL STANDARDS.
- IT CAN BE WIDELY APPLIED IN DIFFERENT FIELDS FOR SUCH AS PLCS, SENSORS AND CONTROL CONSOLE.
- THESE DEVICE SERVERS ARE ULTRA-LEAN, RUGGEDIZED, AND USER FRIENDLY, MAKING SIMPLE AND RELIABLE SERIAL TO ETHERNET SOLUTIONS POSSIBLE.

FEATURES

- AUTO-DETECTING 10/100/1000 MBPS ETHERNET
- SUPPORT TCP SERVER / TCP CLIENT / UDP / VIRTUAL COM SOCKET MODES
- OPTIONAL SUPPORT: 2 OF 1000M SFP FIBER PORT
- WEB-BASED CONFIGURATION
- BUILT-IN 15 KV ESD PROTECTION FOR ALL SERIAL SIGNALS
- WIDE INPUT VOLTAGE RANGE.
- STANDARD 19-INCH RACKMOUNT SIZE

TECHNICAL SPECIFICATIONS

HARDWARE

CPU	32-bit Up to 400MHz ARM Thumb Processor with MMU
Flash	2GB NAND Flash
RAM	64M Bytes DDRII Synchronous DRAM
Watchdog	Hardware built-in

ETHERNET INTERFACE

Number of Ports	2 no's with 2 Separate MAC chips, Separate IP, Separate Class for the Dual Subnet
Speed	10/100/1000 Mbps, Auto MDI/MDIX
Modes	Redundant OR Dual Subnet Mode
Connector	8-pin RJ45
Magnetic Isolation Protection	1.5 KV built-in
TCP Server	Up to 4 connections
TCP Client	Up to 4 Destinations
UDP	Up to 4 destinations

MODES: REDUNDANT / DUAL SUBNET

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 also supported

Redundancy Mode

A goal of redundant topologies is to 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

SOFTWARE

Network Protocols

TCP, IP, UDP, ARP, ICMP, HTTP, DHCP client, NTP, DNS, SNMPV1/V2, SMTP, HTTP, Telnet

Operation Modes

TCP Server, TCP Client, UDP, Virtual Com

Configuration Options

Built-in WEB server, Serial Console, Telnet

Windows Virtual COM Drivers

Windows 2000/XP/2003/Vista/2008/7

SERIAL INTERFACE

Number of Ports

32

Serial Standards

RS232/RS485/RS422

Connector

RJ45

SERIAL COMMUNICATION PARAMETERS

Data Bits

5, 6, 7, 8

Stop Bits

1, 2

Parity

None, Even, Odd, Space, Mark

Flow Control

None, RTS/CTS (RS232 Only)

Baud rate

300 bps to 115.2 Kbps

POWER

Input Voltage

Dual Redundant.
230V AC Range 100 to 240V AC, 50 Hz
Range 50 to 60 Hz
48V DC Range: 36-75V DC
Optional 110 or 220V DC
AC / DC mix is also possible

Power Consumption

<15 watts

SERIAL SIGNALS

RS232	TX, RX, RTS, CTS, GND
RS485	D+/TX+, D-/TX-
RS422	TX+, TX-, RX+, RX-
Console Port	RS232
Diagnostic	Serial Statistics

ALARM AND ALERTS

Alarm Relay Alerts	2 nos. 24V, 2 Amp for Link, Power, Fault. Programmable SNMP, SMTP. Relay for IP Change, LAN1, LAN2 down, Power Supply 1, Power Supply 2 fail
---------------------------	--

OPTIONAL

Fiber Port	Number of Ports	: 2, 1000M SFP slot
-------------------	-----------------	---------------------

OTHERS

Heat Load	45BTU/Hr
MTBF	58400 hrs

MECHANICAL

Dimensions	430 x 200 x 78mm
Housing	Metal case
Weight	3.1Kg

ENVIRONMENTAL

Operating Temperature	-10 to 60°C
Storage Temperature	-40 to 85°C
Relative Humidity	5 to 95% (non-condensing)

APPROVALS AND STANDARDS TESTED FOR

TEST CONDITION	TEST METHOD
Conducted Emission at AC Mains,150KHz to 30MHz	EN55022:2010+AC:2011
Conducted Emission at Data ports for 10Mbps, 100Mbps & 1000Mbps,150KHz to 30MHz	EN 55022:2010+AC:2011
Radiated Emissions,30MHz to 6GHz, for 230V AC & 48V DC	EN 55022:2010+AC:2011
Voltage fluctuations on AC supply	EN 61000-3-3:2013
Harmonic Emissions on AC supply	EN 61000-3-3
RF field strength susceptibility	EN 61000-4-3:2006
Conducted susceptibility	EN 61000-4-6:2009
Dips/Voltage Interruption Variation	EN 61000-4-8:2010
Electrostatic Discharge SD +/- 8KV, +/- 15KV	EN 61000-4-2
Electrical Fast Transients / Bursts, Data Lines +/- 2KV	EN 61000-4-4
Surge Tests, 2KV / 4KV	EN61000-4-5

ORDERING INFORMATION

DDSE 32 S XX G

DDSE	Base Code for G Series Serial to Ethernet Terminal Server
32	32 * RS232/RS485/RS422
S	Optional. S for SM SFP Fiber. MM presently not supported
XX	AA for both AC DD for both DC supplies AD for AC & DC combination
G	Fixed