

iDS3-S

Industrial Single Port RS232/422/485 to Dual Port LAN Ethernet Serial Device Server





Product Overview

The iDS3-S is an industrial device server with a single serial port RS-232/422/485 and 2 redundant Ethernet local area network (LAN) ports for converting signals between serial and Ethernet networks. It comes with standard features such as a TCP/IP interface with versatile operating modes: Virtual Com, TCP Server, TCP Client, UDP, Modbus RTU / ASCII Master, and Modbus RTU / ASCII Slave. Using the Windows utility iDS Manager, the iDS3-S can easily be used to configure multiple devices and set up the mappings of Virtual Com. Administrators will also find it convenient to configure the iDS3-S using either the Network Address Translation (NAT)- pass through functionality, IP domains, or remotely via the Internet. The iDS3-S can simultaneously transfer data to up to 5 redundant host PC's to avoid an Ethernet connection breakdown or failure of any host PC. To ensure secure transmission of critical data, the iDS3-S features HTTPS and SSH.

The iDS3-S operates at wide operating temperature of -40°C to +85°C and has IP-40 enclosure. All these robust features make the iDS3-S an ideal product for harsh industrial environment and critical data communications.

Features and Benefits

Table 1. Features

FEATURE	
SUPPORTS	 NAT-pass through: User can manage iDS3-S through NAT router Dual redundant Ethernet ports Redundant multiple host devices: 5 simultaneous in Virtual COM, TCP Server& Client 4 IP Ranges: UDP Secure Management by HTTPS and SSH IP Access: IP White List
OPERATING MODES	 Virtual COM TCP Server TCP Client UDP Modbus RTU Slave Modbus RTU Master Modbus ASCII Slave Modbus ASCII Master

IP-40 GALVANIZED STEEL HOUSING

MULTIPLE ALARM NOTIFICATIONS METHODS

CONFIGURABLE BY CENTRALIZED MANAGEMENT (iDS MANAGER), WEB UI, AND SSH

SUPPORTS WINDOWS NT / 2000 / XP / 2003 / VISTA/WINDOWS 7(32/64BIT)/WINDOWS 10 (32/64BIT) OS

DIN RAIL AND PANEL MOUNT

PRODUCT SPECIFICATIONS

Table 2. Technical Specification

DESCRIPTION	SPECIFICATION			
ETHERNET PORTS 1 &2				
10/100 BASE-T(X) RJ45 AUTO MDI/MDIX	2			
SERIAL PORT 1				
CONNECTOR	DB9 x 1			
OPERATION MODE	RS-232/422/4(2) Wire RS-485			
SERIAL BAUD RATE	1200 bps to 460.8 Kbps			
DATA BITS	7, 8			
STOP BITS	1, 2 (1.5)			
PARITY	None, Odd, Even, Mark, Space			
FLOW CONTROL	None, XON/XOFF, RTS/CTS, DTR/DSR			
RS-232	TxD, DTR, GND, DSR, RTS, CTS			
RS-422	Tx-, Tx+, Rx+, Rx-			
RS-485	4 wire: Tx-, Tx+, Rx+, Rx-; 2 wire: Data-, Data+			
NETWORK PROTOCOL				
PROTOCOL	ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP V1/V2c, HTTPS, SM			
LED INDICATORS				
POWER INDICATOR	2 x LEDs, PWR 1(2) / Ready; Green On: Power is ON			
10/100 TX RJ45 PORT INDICATOR	Green for Port Link/Act at 100Mbps			
SERIAL TX / RX LEDS	Amber: Serial port is receiving data; Green: Serial port is transmitting data			

Features and Benefits

POWER				
INPUT POWER	Input 12-48VDC (Opr)			
POWER CONSUMPTION (TYP.)	2 W			
OVERLOAD CURRENT PROTECTION	Present			
REVERSE POLARITY PROTECTION	Present			
PHYSICAL CHARACTERISTICS				
ENCLOSURE	IP-40 Galvanized Steel			
DIMENSIONS (W X D X H)	26 (W) x 81 (D) x 122 (H) mm (1.0 x 3.2 x 4.8 inches) DIN rail mount 27 (W) x 87 (D) x 140 (H) mm (1.1 x 3.4 x 5.5 inches) Panel mount			
UNIT WEIGHT (G)	~300 g			

Table 3. Compliance Specification

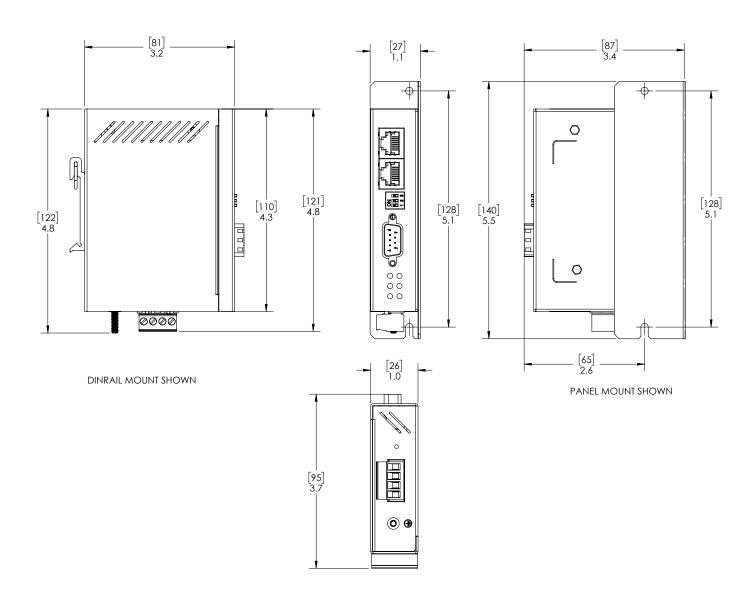
ТҮРЕ	STANDARDS	
ELECTROMAGNETIC EMISSIONS	FCC Part 15, Class A, CISPR Class A (EN55022)	
ELECTROMAGNETIC IMMUNITY	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
SAFETY STANDARDS	EN60950-1	
OPERATING ENVIRONMENT	-40°C to +85°C (-40° to 185°F) (no fans) EN 60068-2-21	
STORAGE ENVIRONMENT	-40°C to +85°C (-40° to 185°F) EN 60068-2-14	
OPERATING HUMIDITY	5% to 95% Non-condensing EN 60068-2-30	
SHOCK	IEC60068-2-27	
FREE FALL	IEC60068-2-32	
VIBRATION	IEC60068-2-32	
WARRANTY	5 years, (extendable option with additional terms)	

Table 4. Standards and Management

DESCRIPTION	SPECIFICATION		
IEEE STANDARDS	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3x for Flow control		
RFC COMPLIANCE	 RFC 768: UDP RFC 791: IPv4 RFC 792: ICMP RFC 793: TCP 	 RFC 1157: SNMPv1 RFC 1166: IP Addresses RFC 1901,1902-1907 SNMPv2 RFC 2131, 2132: DHCP 	 RFC 2571: SNMP Management RFC 4250-4253 SSH RFC 5246 TLS Protocol (HTTPS) RFC 5321 SMTP

Dimensions

All dimensions are shown in inches [millimeters].



Ordering Information

BASE	POWER SUPPLY	MOUNT	ETHERNET PORT 1&2	SERIAL PORT 1	MOD	DESCRIPTION
iDS3-S	LV	D	2RJ45	1DB09		
iDS3-S	1	I	I	I	I	Slim Line core assembly and packaging
	LV	I	I	I	I	Input 12-48VDC
		D	I	I	Ī	DIN Rail Mounting
		Р	I	I	I	Panel Mounting
		N	I	I		No Mounting Hardware
			2RJ45	I	l	2 X 10/100 Base T(X) RJ45
				1DB09		1 X RS232/422/485 DB9
					C1	Conformal Coating

iDS3-S Sample Order Code

iDS3-S-LV-D-2RJ45-1DB09

The same unit, may be ordered with conformal coating by appending '-C1' to the order code, for example: iDS3-S-LV-D-2RJ45-1DB09-C1

Description: 1 Port RS232/422/485 to Ethernet Device Server, (Power Supply) Input 12-48VDC, DIN Rail Mounting, 2 x 10/100Base T(X) RJ45, 1 x RS232/422/485 DB09 Serial Port. This system will be conformal coated.



For more information, visit is5com.com

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