![ORing logo]

IDS-242GT-I+

Industrial 4-port secure serial to Ethernet device server with 4xRS-422/485(2KV isolation) and 2x10/100/1000Base-T(X), 1-port PoE P.D.

Features

- ➢ Operating Modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP, Modbus Gateway
- ➢ Support Modbus Gateway : Modbus TCP, Modbus RTU, Modbus ASCII
- ➢ Support 2 Gigabit Ethernet ports for high speed data transmission
- ➢ 1KV isolation for PoE P.D. port
- ➢ 2KV isolation for serial port
- ➢ Supports 9K Bytes Jumbo Frame
- ➢ Event Warning by Syslog, SNMP trap, Relay and Beeper
- ➢ Configurable by Web-based and Windows utility (**DS-Tool**)
- ➢ Various Windows O.S. supported:
 Windows NT/2000/ XP/ 2003/VISTA(32/64bit)/ Windows 7(32/64bit)

Introduction

   IDS-242GT-I+ is an innovative secure 4 port RS-422/485 to 2 ports Gigabit Ethernet secure device server with standard features of device server, such like TCP/IP interface and versatile operation modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, and UDP.   In addition, the Windows untility, DS-Tool, could configure multiple devices and set up the mappings of Virtual Com.

   IDS-242GT-I+ supports RS-422/485 and provides dual redundant power inputs, 12~48 VDC, on terminal block to guarantee a non-stop operation. In addition, IDS-242GT-I+ also provides P.D. feature at ETH2 port which is fully compliant with IEEE802.3af PoE P.D. specification to save the layout cost of power line. With wide operating temperature, -40~70ºC, and rugged IP-30 housing design, IDS-242GT-I+ series could operate in the harsh industrial environment. Therefore, IDS-242GT-I+ is the best solution to the high demand of secure serial to Ethernet critical data communication.
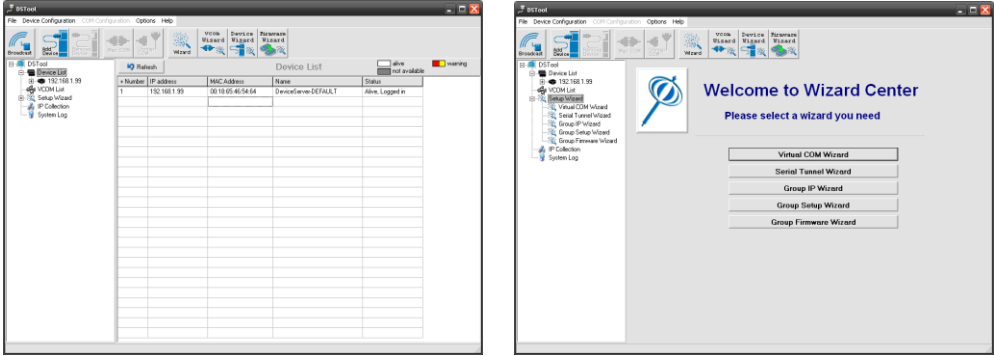
Practical Operation

In practical operation of serial device servers, Windows utility (DS-Tool) is supported.   This utility is very helpful for you to manage and monitor all of industrial device servers on the industrial network.
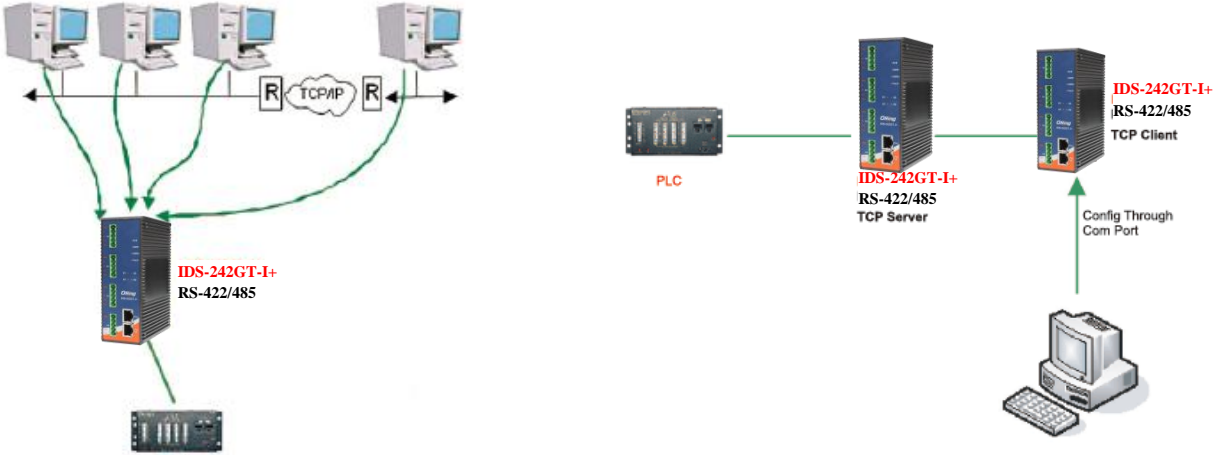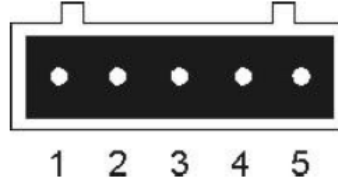

Multiple Host PCs

TCP Client/Server Modes

DS-Tool (Windows Utility): Monitoring and Configuration

Pin Definition

5 Pin Terminal block connector

1 2 3 4 5

Pin #	RS-422	RS-485 (4 wire)	RS-485 (2 wire)
1	TXD +	TXD +	DATA +
2	TXD -	TXD -	DATA -
3	RXD +	RXD +	
4	RXD -	RXD -	
5	GND	GND	GND

Dimension

Unit: mm
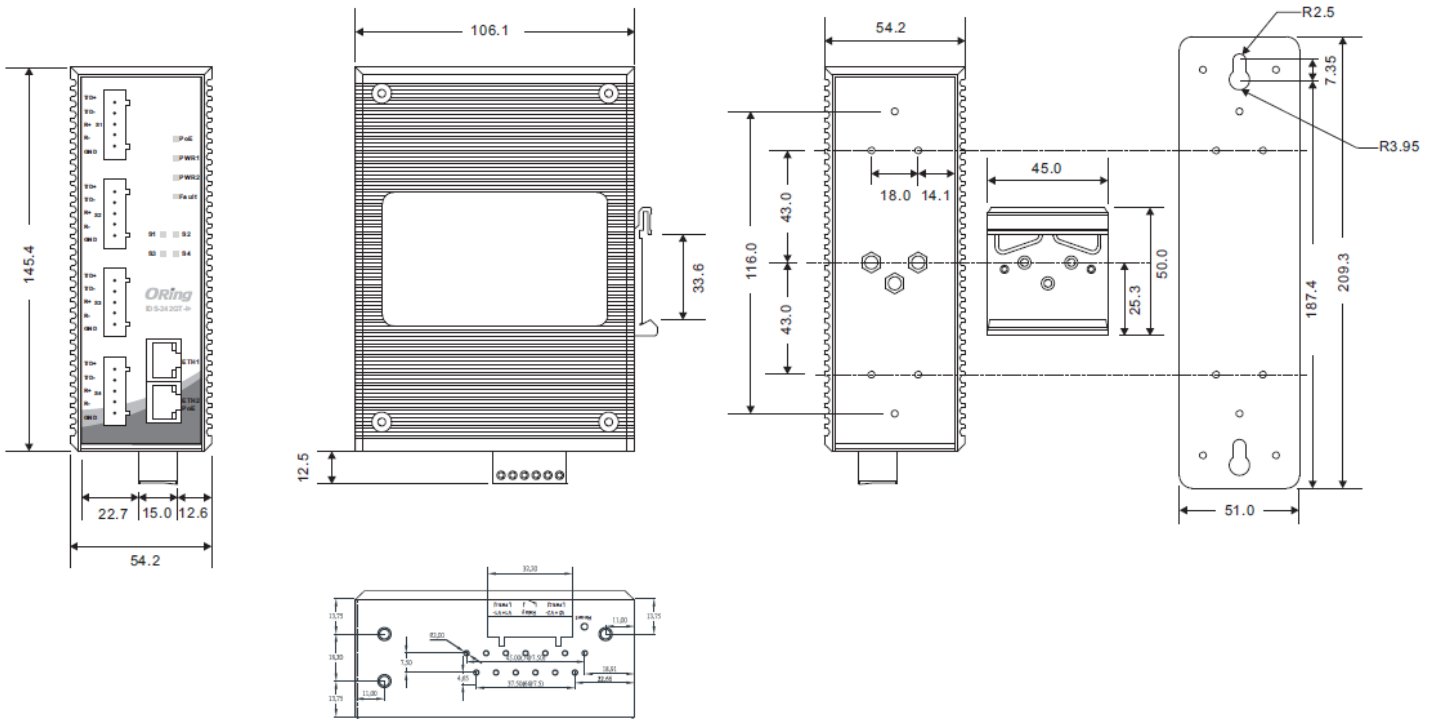
Specifications

ORing Device Server Model	IDS-242GT-I+
Physical Ports	
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX	**2**

PoE P.D. port	Present at ETH2
	    Fully compliant with IEEE 802.3af Power Device specification
	    Over load & short circuit protection
	    Isolation Voltage: 1000 VDC min.
	    Isolation Resistance : 10^8 ohms min

Serial Ports	
Connector	5 pin terminal block x 4
Operation Mode	RS-422/485
Serial Baud Rate	110 bps to 921.6 Kbps
Data Bits	7, 8
Parity	odd, even, none, mark, space
Stop Bits	1, 1.5, 2
RS-422	TxD+, TxD-, RxD+, RxD-,GND
RS-485 (4-wire)	TxD+, TxD-, RxD+, RxD-,GND
RS-485 (2-wire)	DATA+, DATA-, GND
Isolating	2KV
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR
Network Protocol	
Protocol	ICMP, IP, TCP, UDP, DHCP, BOOTP,DNS, SNMP V1/V2c, HTTPS
Jumbo frame	Up to 9.6K Bytes
LED indicators	
Power indicator	PWR 1(2) / Ready: Green On: Power is on and functioning Normally.
10/100/1000 RJ45 port indicator	Top Green for port Link at 1000Mbps, Amber for port Link at 100Mbps, off for port Link at 10Mbps Bottom Green for port Link/Act
Serial TX / RX LEDs:	Red: Serial port is receiving data Green: Serial port is transmitting data
Power	
Redundant Input power	Dual DC inputs. 12-48VDC on 6-pin terminal block
Power consumption (Typ.)	6.96 W
Overload current protection	Present
Reverse polarity protection	Present on terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	54.2(W)x106.1(D)x145.4(H) mm (2.13x4.18x5.72 inch.)
Weight (g)	705g
Environmental	
Storage Temperature	-40 to 85ºC (-40 to 185ºF)
Operating Temperature	-40 to 70ºC (-40 to 158ºF)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
EMI	FCC Part 15 B, CISPR (EN55032) class A
EMS	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
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1
Warranty	5 years

Ordering Information

IDS-2ABCC-DE
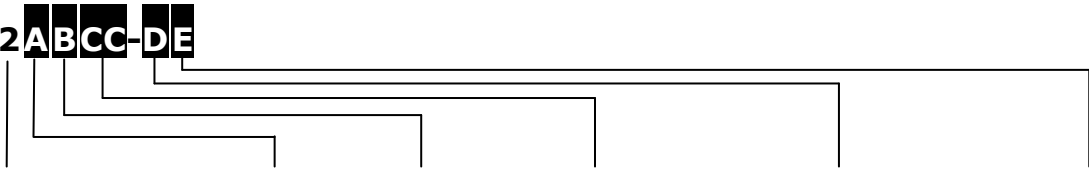
Code Definition	Serial Port Type	Serial Port Number	Ethernet Port Number	Ethernet port Type	Serial Port Identification	PoE Identification
Option	- 1: RS-232 - 2: RS-422/485 - 3: RS-232/422/485	- 4: 4 ports	- 2: 2 ports	- GT: Gigabit Ethernet	- I: Serial port are isolated RS-422/485	- "+": PoE P.D. present at ETH2

Available Model	Model Name	Description
	IDS-242GT-I+	Industrial 4-port secure serial to Ethernet device server with 4x RS-422/485(2KV isolation) and 2x10/100/1000Base-T(X), 1-port PoE P.D.

Packing List

- **IDS-242GT-I+ x 1**
- **CD x 1**
- **Quick Installation Guide x 1**
- **DIN-rail Kit x 1**
- **Wall-mount Kit x 1**

Optional Accessories

- **DR-45 series : 45 Watts power supply**
- **DR-75 series : 75 Watts power supply**
- **DR-120 series : 120 Watts power supply**

Mouser Electronics

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