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
- Security: SSL data encryption; secured management by HTTPS and SSH
- 1KV isolation for PoE P.D. port
- 2KV isolation for serial port
- Supports 9K Bytes Jumbo Frame
- Event Warning by Syslog, SNMP trap, Relay
- 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)

















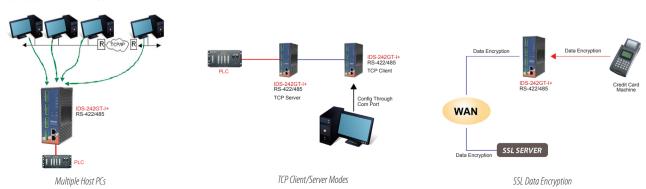


IDS-242GT-I+ is an innovative secure 4 port RS-422/485 to 2 ports Gigabit Ethernet secure device server with standard features of device server, such like TCP/IP interface and versatile operation modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, and UDP. In addition, the Windows untility, DS-Tool,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

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, $-40 \sim 70^{\circ}$ C, 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.

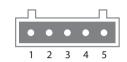






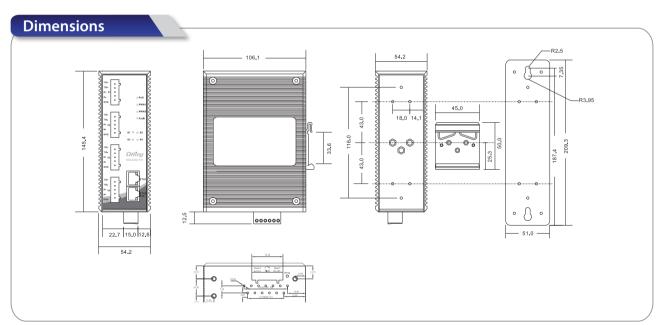
DS-Tool (Windows Utility): Monitoring and Configuration interface

Pin Assignment



5-Pin Terminal block connector

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

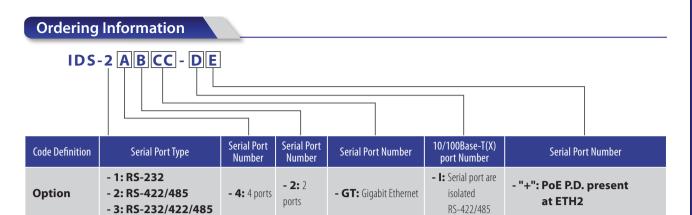


Unit=mm

Specifications

ORing Switch Model	IDS-242GT-I+			
Physical Ports Physical Ports				
10/100/1000 Base-T(X) Ports in RJ45	2			
Auto MDI/MDIX	Present at ETH2 Fully compliant with IEEE 802.3af Power Device specification Over load & short circuit protection Isolation Voltage: 1000 VDC min. Isolation Resistance: 108 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, SSH, 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 85°C (-40 to 185°F)
Operating Temperature	-40 to 70°C (-40 to 158°F)
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



Available	Model Name	Description	
Model	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 • DIN-rail Kit x 1 • CD x 1 • Wall-mount Kit x 1 • Quick Installation Guide x 1		Optional Accessories • DR-45 series: 45 Watts power supply • DR-120 series: 120 Watts power supply • DR-75 series: 75 Watts power supply	