ORing

IDS-342GT

Industrial 4-port secure serial to Ethernet device server with 4xRS-232/422/485 and 2x10/100/1000Base-T(X)

■Features

➢ Operating Modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP, Modbus Gateway
➢ Redundant multiple host devices:
   5 host devices: Virtual COM, TCP Server, TCP Client mode;
   4 IP ranges: UDP
➢ Support Modbus Gateway : Modbus TCP, Modbus RTU, Modbus ASCII
➢ Security: SSL data encryption; secured management by HTTPS and SSH
➢ 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-342GT is an innovative secure 4 port RS-232/422/485 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. On the other hand, IDS-342GT can simultaneously transfer data up to 5 redundant host PCs to aovid Ethernet connection breakdown or any host PC fails.   Further, IDS-342GT features HTTPS, SSH, and SSL encryption to assure the security of critical data transmission.

   IDS-342GT supports RS-232/422/485 and provides dual redundant power inputs, 12~48 VDC, on terminal block to guarantee a non-stop operation. With wide operating temperature, -40~70°C, and rugged IP-30 housing design, IDS-342GT series could operate in the harsh industrial environment. Therefore, IDS-342GT is the best solution to the high demand of secure serial to Ethernet critical data communication.
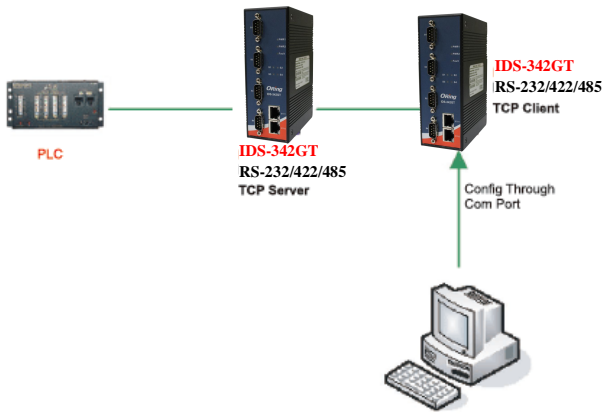
Practical Operation

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.
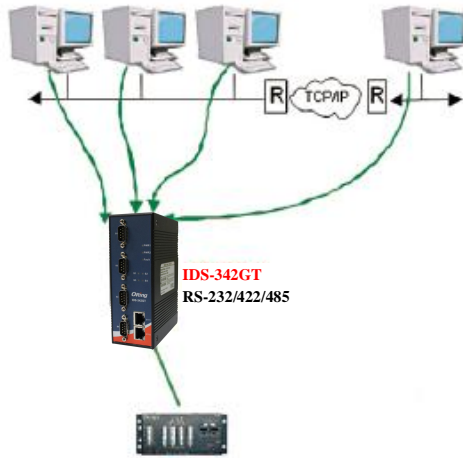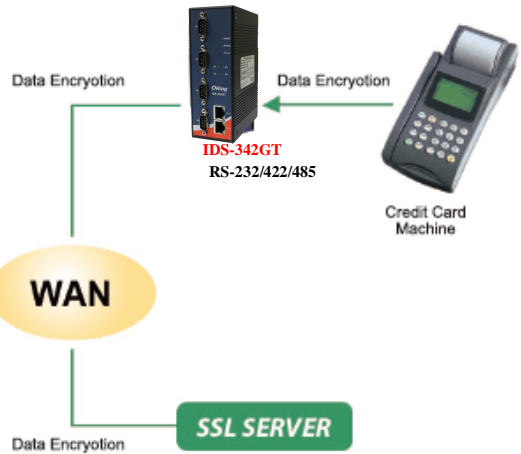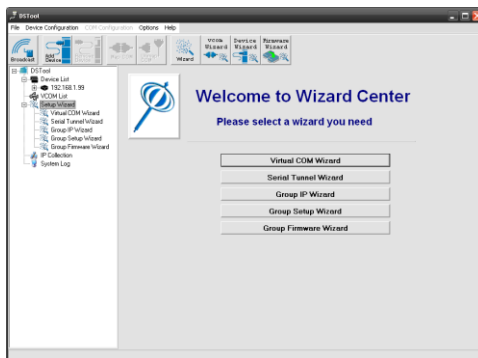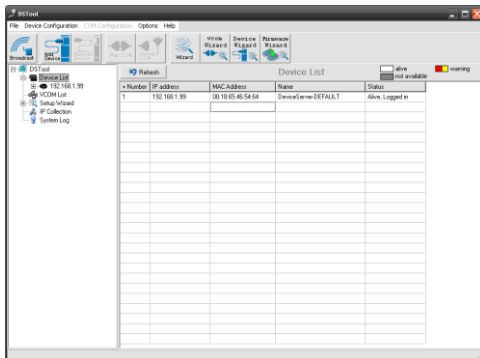

Multiple Host PCs
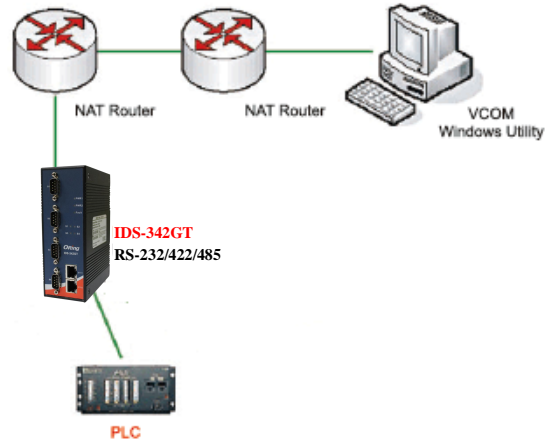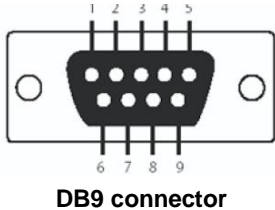

NAT Router Pass Through

TCP Client/Server Modes

SSL Data Encryption

DS-Tool (Windows Utility): Monitoring and Configuration

Pin Definition

DB9 connector

Pin #	RS-232	RS-422	RS-485 (4 wire)	RS-485 (2 wire)
1	DCD	TX-	TX-	DATA -
2	RXD	TX+	TX+	DATA +
3	TXD	RX+	RX+	
4	DTR	RX-	RX-	
5	GND	GND	GND	
6	DSR			
7	RTS			
8	CTS			
9	RI			

Dimension

Dimension (Unit =mm)
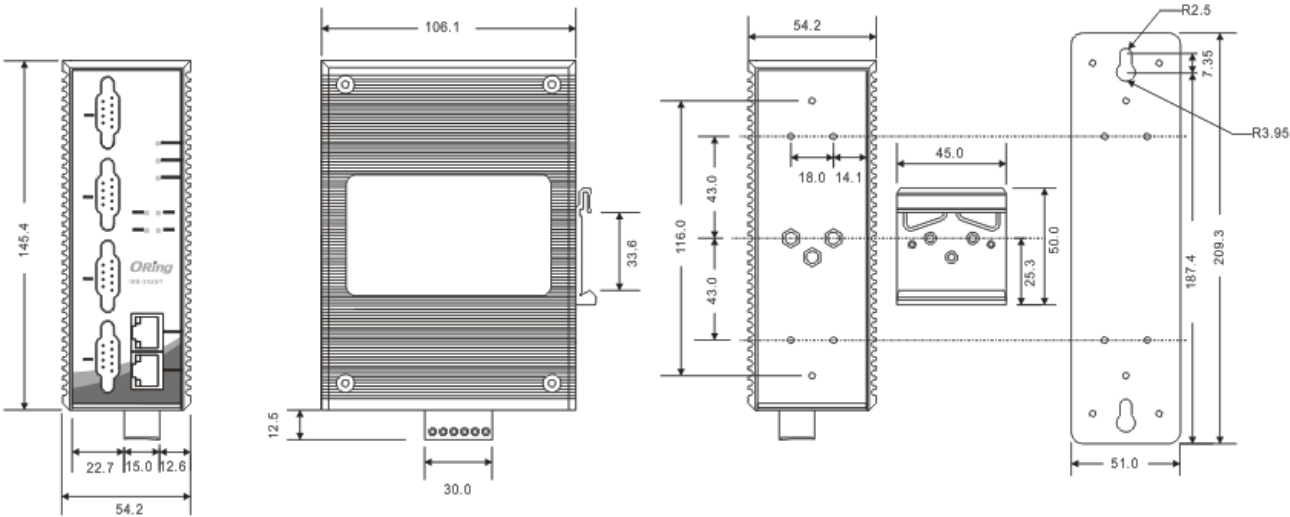
Specifications

ORing Device Server Model	IDS-342GT
Physical Ports	
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX	**2**
Serial Ports	
Connector	DB9 x 4
Operation Mode	RS-232/422/485
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-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR
Network Protocol	
Protocol	ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP V1/V2c, HTTPS
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.)	6.96W
Overload current protection	Present
Reverse polarity protection	Present on terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	52(W)x106.1(D)x145.4(H) mm (2.05x4.18x5.72 inch.)
Weight (g)	740g
Environmental	
Storage Temperature	-40 to 85ºC (-40 to 185ºF)
Operating Temperature	-10 to 60ºC (14 to 140ºF)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
EMI	FCC Part 15, CISPR (EN55022) 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-3ABCC
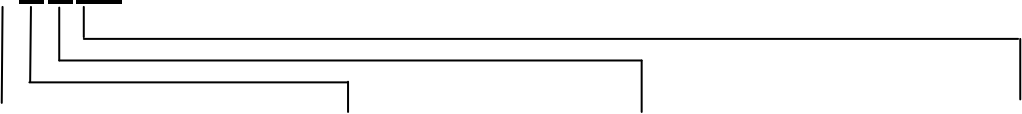
Code Definition	Serial Port Type	Serial Port Number	Ethernet port Number	Ethernet port Type
Option	- 1: RS-232 - 2: RS-422/485 - 3: RS-232/422/485	- 4: 4 ports	- 2: 2 ports	-GT: Gigabit Ethernet

Available Model	Model Name	Description
	IDS-342GT	Industrial 4-port secure serial to Ethernet device server with 4xRS-232/422/485 and 2x10/100/1000Base-T(X)

Packing List

- **IDS-342GT x 1**
- **CD x 1**
- **Quick Installation Guide 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**