IDS-5642-I+

Industrial security 4-port Isolate RS422/485 to 2-port 10/100TX Device Server

Highlights

- Data Security: SSL encryption
- Internet Community: PPPoE
- Update DNS Hostname: DDNS
- Comport command support
- Redundant Dual Ethernet Ports: Recovery time < 10ms
- Switch Mode Supported: Daisy Chain support to reduce usage of switch ports
- NAT-pass through: User can manage IDS-5642-I+ through NAT router
- Redundant Power Inputs: 12~48VDC on terminal block
- Redundant multiple host devices: 5 simultaneous in Virtual COM, TCP Server, TCP Client mode, UDP
- Secured Management by HTTPS and SSH
- Versatile Modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP
- Event Warning by Syslog, Email, SNMP trap, and Beeper
- Various Windows O.S. supported: Windows NT/2000/ XP/ 2003/ VISTA 32 bits

Features

- Dual redundant Ethernet port support redundant mode (Recovery time < 10ms)
- Ethernet switch mode enable Daisy Chain
- Redundant 5 multiple host devices supported to protect your industrial network
- Versatile modes & event alarm by e-mail
- HTTPs & SSH protocol supported for secured management
- NAT router pass through
- Console command control
- SSL encryption for Security data transfer

- PPPoE for internet community
- DDNS for domain name service
- IP table to prevent access from unauthorized IP address
- Configurable by Web-based and Windows utility (DS-Tool)
- 2KV isolation for RS422/485 serial port
- 1KV isolation for PoE PD port
- Dual redundant DC power inputs of terminal block
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

Introduction

IDS-5642-I+ is an innovative 4 port isolated RS422/485 to 2 ports LAN redundant security device server. To assure the agility and security of critical data, IDS-5642-I+ offers many powerful features for HW & SW redundant functions. When the connection between master-link and LAN fails, IDS-5642-I+ can automatically switch to another LAN port within 10mS, and still guarantees a non-stop connection. IDS-5642-I+ also supports switch mode, users can use Daisy Chain to reduce the usage of Ethernet switch ports. Secondly, IDS-5642-I+ can simultaneously transfer SSL encryption data into 5 host PCs. This feature can assure all critical data that saved in different host PC to avoid Ethernet break or host PCs failure. Thirdly, IDS-5642-I+ provides dual redundant power inputs on DC power jack and terminal block. IDS-5642-I+ also provides NAT pass through function so that users are able to manage IDS-5642-I+ inside or outside the NAT router. It is easy for different IP domain users to use IDS-5642-I+. In addition, IDS-5642+ also support P.O.E. PD on ETH2. This feature is fully compliant with IEEE802.3af standard. Therefore, IDS-5642-I+ is one of the best security communication redundant solutions for application of serial devices.
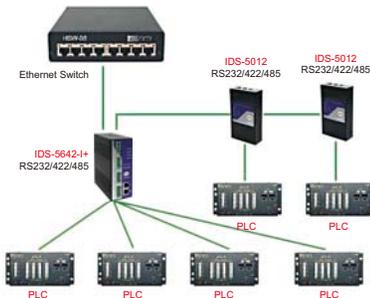
DS-Tool

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.
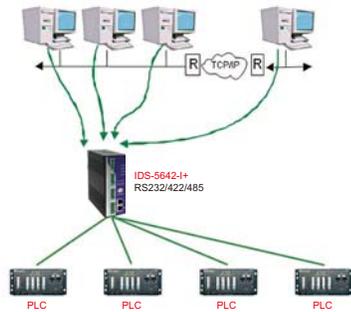
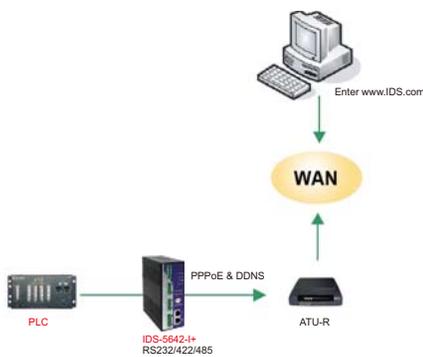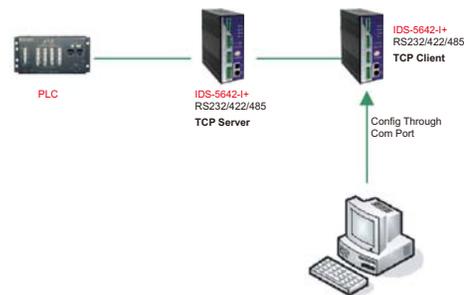Redundancy 5 Host Devices
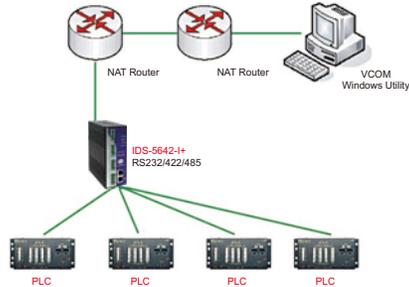
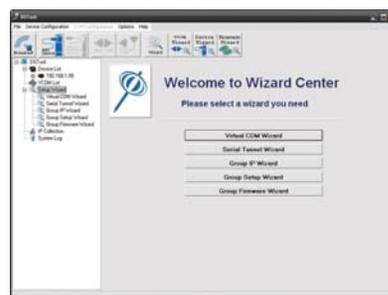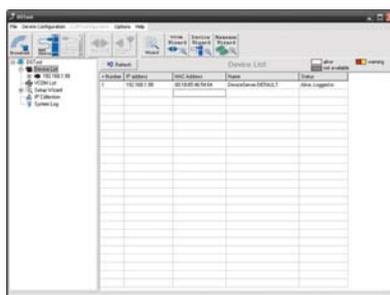NAT Router Pass Through

Daisy Chain Switch mode

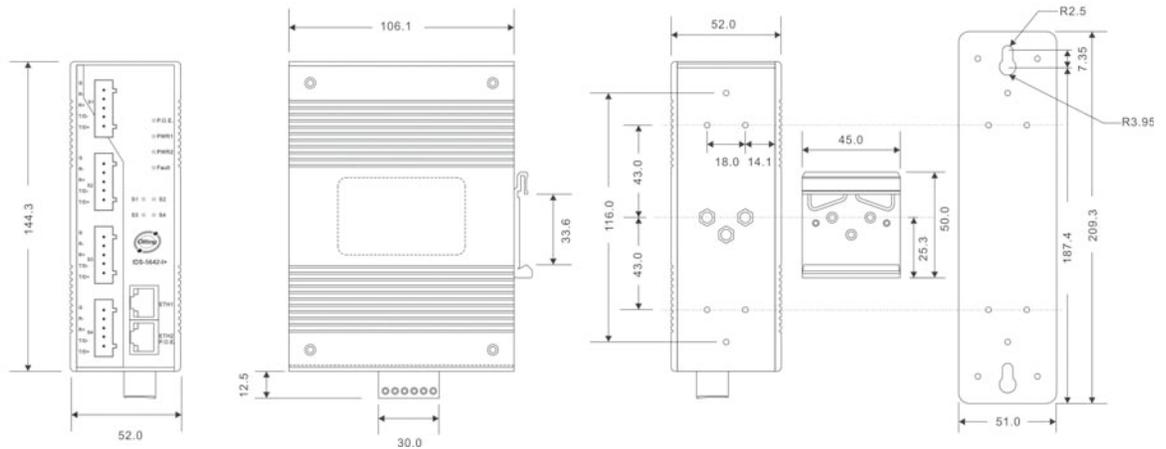SSL Data Encryption

Connect through PPPoE / DDNS

COM Port Command

Monitoring and Configuration interface

Dimension

(Unit=mm)

Specifications

ORing Device Server Model	IDS-5642-I+
Physical Ports	
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	2

P.O.E. Feature	P.O.E.Present at ETH2
	Power Device (IEEE 802.3af):
	  IEEE 802.3af compliant input interface
	  Power consumption: 8Watts max.
	  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	RS422 / 4(2)-Wire RS485. Which can be configured by DS-Tool
Serial Baud Rate	110 bps to 460.8 Kbps
Data Bits	5, 6, 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
RS-422	Tx+,Tx-, Rx+, Rx-,GND
RS-485 (4-wire)	Tx+,Tx-, Rx+, Rx-,GND
RS-485 (2-wire)	Data+, Data-,GND
Isolating	2KV
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR
LED indicators	
Power indicator	PWR 1(2) / Ready: Red On: Power is on and booting up. Red Blinking: Indicates an IP conflict, or DHCP or BOOTP server did not respond properly. Green On: Power is on and functioning Normally. Green Blinking: Located by Administrator.
10/100TX RJ45 port indicator	Green for port Link/Act at 100Mbps. Yellow for port Link/Act at 10Mbps.
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.)	6.5 Watts
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(D)x144(H) mm (2.05x4.17x5.67 inch.)
Weight (g)	667 g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-10 to 60°C (14 to 140°F)
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
Warranty	5 years

Ordering Information

IDS-56 A B - C D

Code Definition	Serial Port Number	Ethernet Port Number	Serial Port Identification	POE Identification
Option	- 4: 4 ports	- 2: 2 ports	- I: Serial port are isolated RS-422/485	-"+": P.O.E. PD present at ETH2

	Model Name	Description
Available Model	IDS-5642-I+	Industrial security 4-port isolate RS422/485 to 2-port LAN Device Server with 1-port PoE PD