Industrial Device Server

# IDS-5612

## Industrial security 1-port RS232/422/485 to 2-port 10/100TX Device Server

### Highlights

・Data Security : SSL encryption

・Internet Community : PPPoE

・Update DNS Hostname : DDNS

・Command Port 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-5612 through NAT router

・Redundant Power Inputs: 12~48VDC on power jack and 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

・In order to transfer data securely. We support the encryption in TCP server, TCP client mode.

・Connect to internet : pppoe dial and ddns mode.

・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)

・Dual redundant DC power inputs of terminal block and power jack

・Rigid IP-30 housing design

・DIN-Rail and panel mounting enabled

### Introduction

IDS-5612 is an innovative 1 port RS232/422/485 to 2 ports LAN redundant security device server.  To assure the agility and security of critical data, IDS-5612 offers many powerful features for HW & SW redundant functions.  When the connection between master-link and LAN fails, IDS-5612 can automatically switch to another LAN port within 10mS, and still guarantees a non-stop connection.  IDS-5612 also supports switch mode, users can use Daisy Chain to reduce the usage of Ethernet switch ports. Secondly, IDS-5612 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-5612 provides dual

redundant power inputs on DC power jack and terminal block.  IDS-5612 also provides NAT pass through function so that users are able to manage IDS-5612 inside or outside the NAT router.  It is easy for different IP domain users to use IDS-5612.   Therefore, IDS-5612 is one of the best security communication redundant solutions for application of serial devices
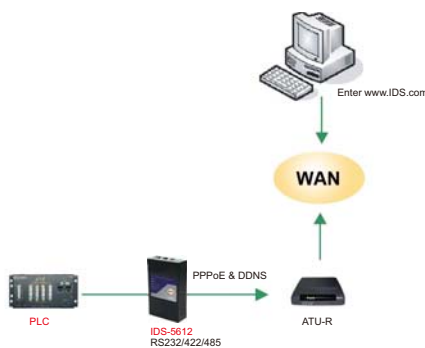
## DS-Tool

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.
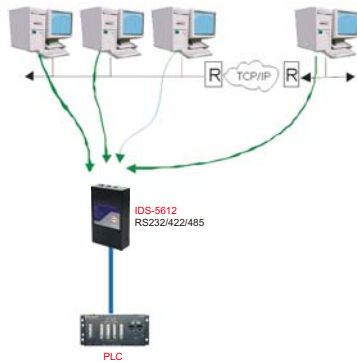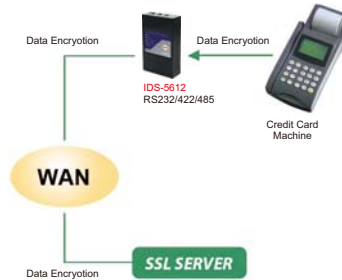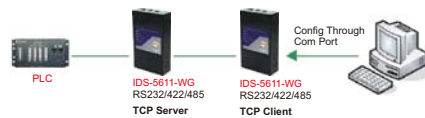


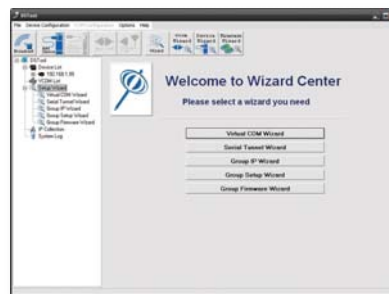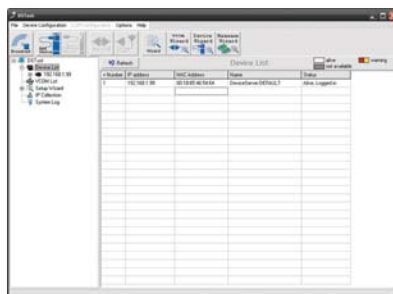Redundancy 5 Host Devices
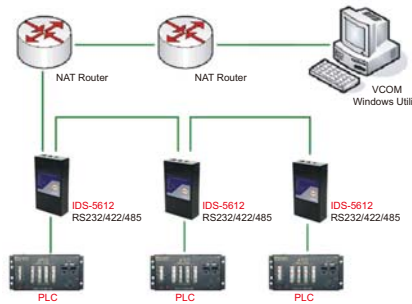


NAT Router Pass Through
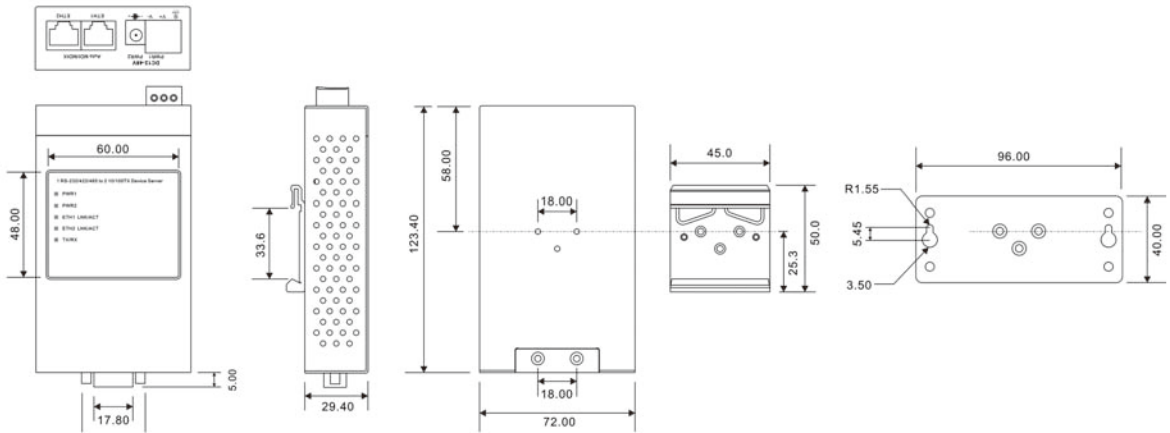


Connect through PPPoE / DDNS



SSL Data Encryption



COM Port Command



Monitoring and Configuration interface

## Dimension

(Unit=mm)



## Specifications

| ORing Device Server Model | IDS-5612 |
|---|---|
| **Physical Ports** | |
| 10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX | 2 |
| **Serial Ports** | |
| Connector | DB9 x 1 |
| Operation Mode | RS232 / 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 |
| Flow Control | XON/XOFF, RTS/CTS, DTR/DSR |
| **LED indicators** | |
| Power indicator | PWR 1(2) / Ready:<br>    Red On: Power is on and booting up.<br>    Red Blinking: Indicates an IP conflict, or DHCP or BOOTP server did not respond properly.<br>    Green On: Power is on and functioning Normally.<br>    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<br>Green: Serial port is transmitting data |
| **Power** | |
| Redundant Input power | Dual DC inputs. 12-48VDC on 3-pin terminal block and power jack |
| Power consumption (Typ.) | 4 Watts |
| Overload current protection | Present |
| Reverse polarity protection | Present on terminal block |

| **Physical Characteristic** | |
|---|---|
| Enclosure | IP-30 |
| Dimension (W x D x H) | 72(W)x100(D)x31(H) mm (2.83x3.94x1.22 inch.) |
| Weight (g) | 327 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**

| Code Definition | Serial Port Number | Ethernet Port Number |
|---|---|---|
| **Option** | **- 1: 1 ports** | **- 2: 2 ports** |

| | **Model Name** | **Description** |
|---|---|---|
| Available Model | IDS-5612 | Industrial security 1-port RS232/422/485 to 2-port LAN Device Server |