IDS-5011

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Industrial Device Server

> ### ⟫ *Industrial 1-port secure serial to Ethernet device server with 1xRS-232 and 1x10/100Base-T(X)*

Features

- Operating Modes : Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP

- Multiple host devices :
  5 host devices : Virtual COM, TCP Server, TCP Client mode;
  4 IP ranges : UDP

- NAT Pass-Through : the user can manage IDS-5011 through NAT router

- Security : SSL data encryption; secured management by HTTPS and SSH
  IP Access : IP White List

- Update DNS Hostname : DDNS

- Event Warning by Syslog, Email, SNMP trap and Beeper

- Configurable by Web-based and Windows utility (DS-Tool)

- Various Windows O.S. supported :
 Windows NT/ 2000 / XP / 2003 / VISTA(32/64-bit) / Windows 7(32/64-bit)

Introduction

IDS-5011 is an innovative secure 1-port RS-232 to 1-port LAN serial to Ethernet device server featuring the 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 utility, DS-Tool, could configure multiple devices and set up the mappings of Virtual Com. The features of NAT Router Pass-Through, DDNS, and PPPoE make it more convenient for administrators to configure ORing's device servers through NAT router from different IP domains or Internet via modem remotely. On the other hand, IDS-5011 can simultaneously transfer data up to 5 redundant host PCs to aovid Ethernet connection breakdown or any host PC fails. Further, IDS-5011 features HTTPS, SSH, and SSL encryption to assure the security of critical data transmission.

IDS-5011 provides dual redundant power inputs, 12~48 VDC and DC power jack to guarantee a non-stop operation. With wide operating temperature, -40°~70℃ , and rugged IP-30 housing design, IDS-5011 could operate in the harsh industrial environment. Therefore IDS-5011 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.
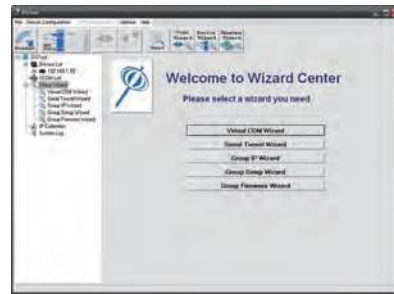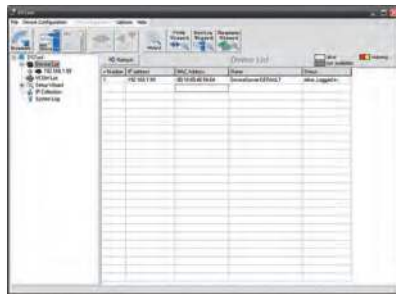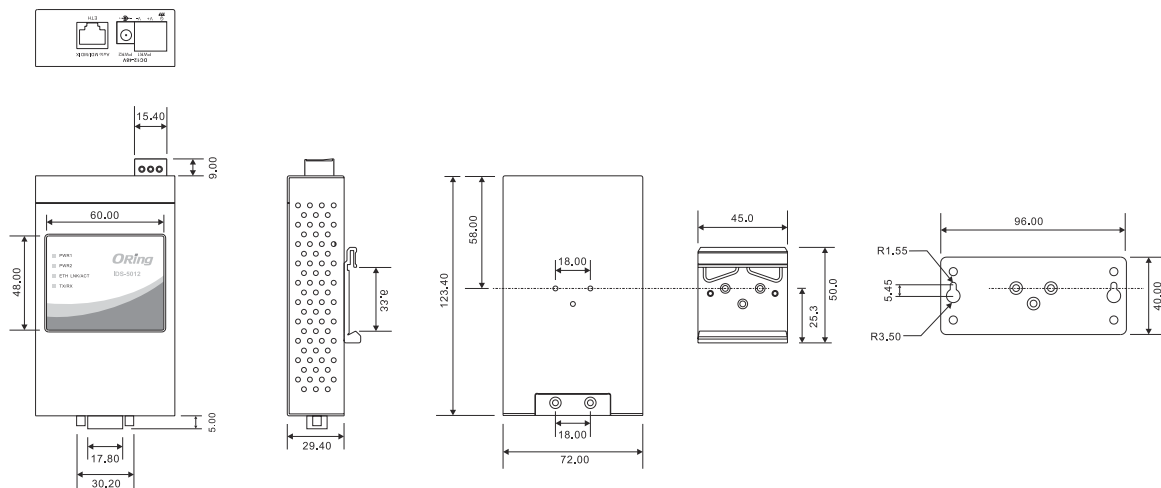
Multiple Host PCs

NAT Router Pass-Through
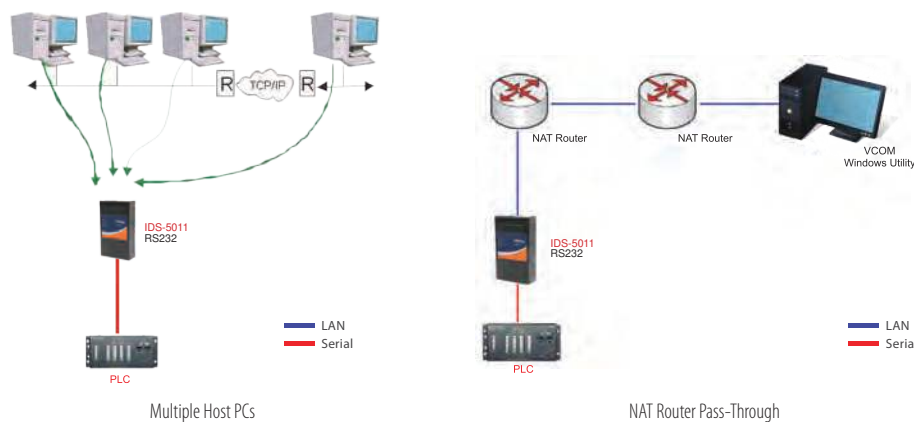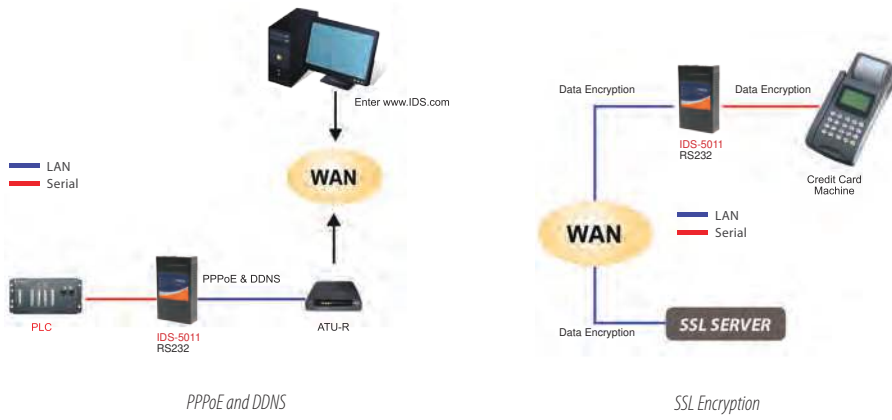
PPPoE and DDNS

SSL Encryption

TCP Server/Client Mode
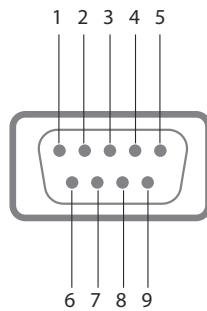

DS-Tool (Windows Utility): Monitoring and Configuration interface

Dimensions

Unit=mm

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Industrial Device Server

Pin Assignment

1 2 3 4 5

6 7 8 9

DB9(male) Pin Assignment

Pin #	RS-232
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI
RS-232 mode act as DTE	

Specifications

ORing Device Server Model	IDS-5011
Physical Ports	
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX	1
Serial Ports	
Connector	DB9 x 1
Operation Mode	RS-232
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
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR
Network Features	
Network Protocols	ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP V1/V2c, HTTPS, SMTP, PPPoE, DDNS
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.
10/100Base-T(X) RJ45 Port Indicator	Green for port Link/Act at 100Mbps. Amber 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 3-pin terminal block and power jack
Power Consumption (Typ.)	4 watts
Overload Current Protection	Present
Reverse Polarity Protection	Present on terminal block
Physical Characteristics	
Enclosure	IP-30
Dimensions (W x D x H)	72(W)x29.4(D)x123.4(H) mm (2.83x1.16x4.86 inch.)
Weight (g)	346 g

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, 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-50 [A] [B]

Code Definition	Serial Port Number	Ethernet Port Number
Option	**- 1:** 1 port	**- 1:** 1 port

Available Model	Model Name	Description
	IDS-5011	Industrial 1-port secure serial to Ethernet device server with 1xRS-232 and 1x10/100Base-T(X)

Packing List
- IDS-5011
- DIN-Rail Kit
- Wall-mount Kit
- ORing Tool CD
- Quick Installation Guide

Optional Accessories (Can be purchased separately)
- DR-45 series, 45W DIN-Rail power supply
- DR-75 series, 75W DIN-Rail power supply
- DR-120 series, 120W DIN-Rail power supply
- PAA-121000, 12VDC/1000mA 12W Power Adapter, US plug
- PAE-121000, 12VDC/1000mA 12W Power Adapter, EU plug

Company Information

2011 Product Overview

Vertical Market Applications

Industrial Ethernet Switch

Industrial Media Converter

Industrial Device Server

Industrial Wireless Access Point

Industrial Cellular VPN Router

Industrial USB-Over-IP Server

Accessories

Network Management Utility