IDS-141A/181A

> Industrial 4-port/8-port slim type serial to Ethernet device server

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-181A/141A 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 Relay
- 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)



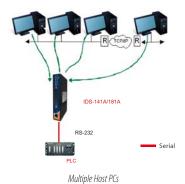
Introduction

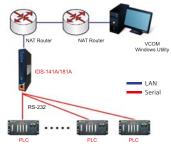
IDS-181A/141A is an innovative secure 8-port/4-port RS-232 to 1-port LAN serial to Ethernet device server featuring the standard features of device server, such like TCP/IP interface and versatile operation modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP, Ethernet modem. In addition, the Windows utility, DS-Tool, could configure multiple devices and set up the mappings of Virtual Com. The features of NAT Router Pass-Through, and DDNS 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-181A/141A can simultaneously transfer data up to 5 redundant host PCs to aovid Ethernet connection breakdown or any host PC fails. Further, IDS-181A/141A features HTTPS, SSH, and SSL encryption to assure the security of critical data transmission.

IDS-181A/141A provides dual redundant power inputs, $12 \sim 48$ VDC on terminal block and DC power jack to guarantee a non-stop operation. With wide operating temperature, $-40 \sim 70^{\circ}$ C, and rugged IP-30 housing design, IDS-181A/141A could operate in the harsh industrial environment. Therefore IDS-181A/141A is the best solution to the high demand of secure serial to Ethernet critical data communication.

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 in the industrial network.





NAT Router Pass-Through

v1.4 / Nov, 2010

Company Information

2011 Product Overview

Vertical Market Applications

Industrial Ethernet Switch

Industrial Media Converter

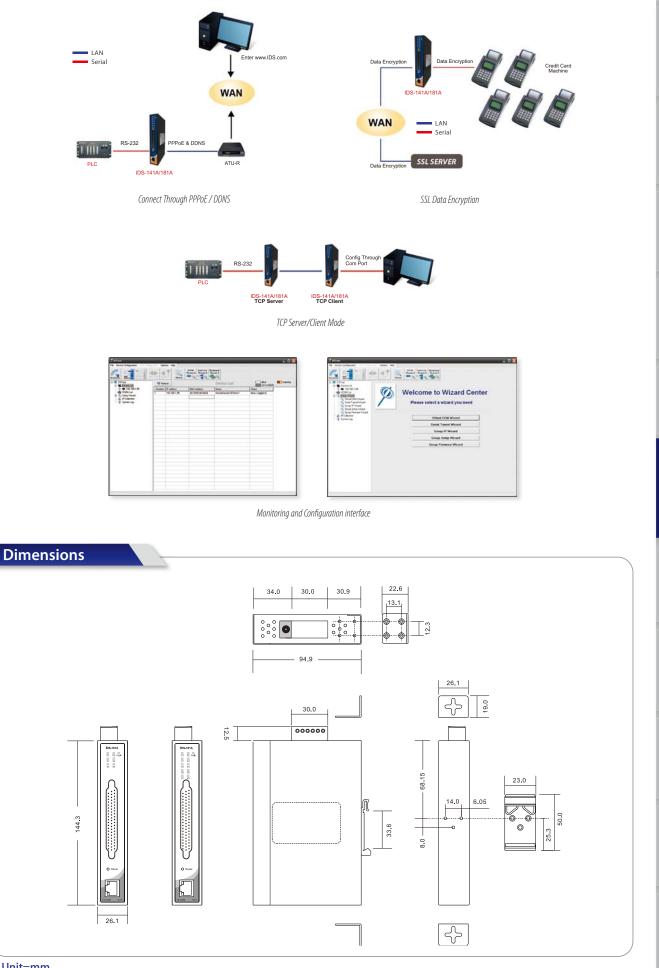
Industrial Device Server

Industrial Wireless Access Point

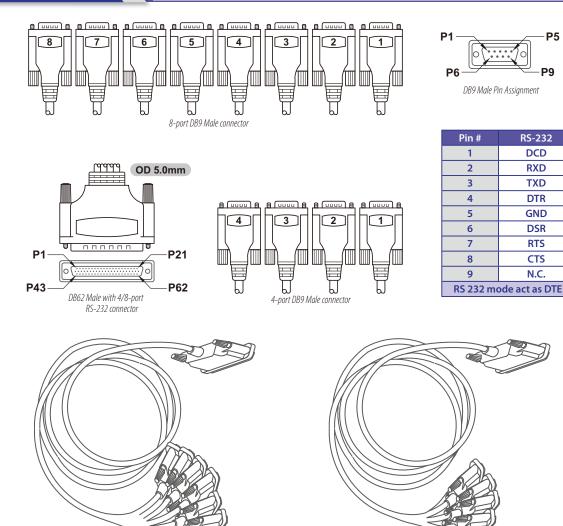
Industrial Cellular VPN Router

Industrial USB-Over-IP Server

Network Management Utility



Pin Definitions



DB62 Male to 8-port DB9 connector (For IDS-181A) DB62 Male to 4-port DB9 connector (For IDS-141A)

Company Information

2011 Product Overview

Vertical Market Applications

Industrial Ethernet Switch

Industrial Media Converter

> Industrial Device Server

Industrial Wireless Industrial Cellular Access Point VPN Router

Industrial USB-Over-IP Server

Accessories

Network Management Utility

Specifications

ORing Device Server Model	IDS-181A	IDS-141A		
Physical Ports				
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX		1		
Serial Ports				
RS-232 Serial port number	8	4		
Connector	DB62 Female (provide DB62 to 8 ports DB9 cable)	DB62 Female (provide DB62 to 4 ports DB9 cable)		
Operation Mode	RS-232			
Serial Baud Rate	110 bps to 115.2 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, 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, SSL, PPPoE, DDNS			
LED Indicators				
Power Indicator	PWR 1(2) / Ready : 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. Amber for port Link/Act at 100Mbps.			
Serial TX / RX LEDs	Red : Serial port is receiving data Green : Serial port is transmitting data			
Fault Contact				
Relay	Relay output to carry capacity of 1A at 24VDC			
Power				
Redundant Input Power	Triple DC inputs. 12~48VDC on 6-pin terminal block and power jack			
Power Consumption (Typ.)	4.5 Watts	3.7 Watts		
Overload Current Protection	Present			
Reverse Polarity Protection	Present on terminal block			
Physical Characteristics				
Enclosure	IP-30			
Dimensions (W x D x H)	26.1(W) x 94.9(D) x 144.3(H) mm			
Weight (g)	358 g	355 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			

Ordering Information

IDS-1AB-A

Code Definition		Serial Port Number		10/100Mbps Ethernet Port Number	
Option		- 4: 4 ports - 8: 8 ports		- 1: 1 port	
Available Model	Model Name		De	escription	
	IDS-181A-US	Industrial 8-port slim type secure seria adapter	Industrial 8-port slim type secure serial to Ethernet device server with 8xRS-232 and 1x10/100Base-T(X), DB62 connector, US adapter		
	IDS-181A-EU	Industrial 8-port slim type secure seri- adapter	Industrial 8-port slim type secure serial to Ethernet device server with 8xRS-232 and 1x10/100Base-T(X), DB62 connector, EU adapter		
	IDS-141A-US	Industrial 4-port slim type secure seria adapter	Industrial 4-port slim type secure serial to Ethernet device server with 4xRS-232 and 1x10/100Base-T(X), DB62 connector, US adapter		
	IDS-141A-EU	Industrial 4-port slim type secure seri- adapter	Industrial 4-port slim type secure serial to Ethernet device server with 4xRS-232 and 1x10/100Base-T(X), DB62 connector, EU adapter		
Packing List • IDS-181A/141A • DIN-Rail Kit • Wall-mount Kit • DB62 to DB9 Cable • ORing Tool CD • Oxida lastallytica Guida		Optional Accessories (Can • DR-45 series, 45W DIN-Rail powe • DR-75 series, 75W DIN-Rail powe • DR-120 series, 120W DIN-Rail po • PAA-121000, 12VDC/1000mA 12 • PAE-121000, 12VDC/1000mA 12	er supply er supply wer supply 2W Power Adapter, US	plug	

Quick Installation Guide

M Industrial Device Server