



IDS-181A

Industrial 8 slim type serial to Ethernet device server with 8 xRS-232 and 1x10/100Base-T(X)

Highlights

- Versatile Modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP
- Redundant multiple host devices: 5 host devices: Virtual COM, TCP Server, TCP Client mode; 4 host devices: UDP
- NAT-pass through: user can manage IDS-181A/141A through NAT router
- Security: SSL data encryption; secured management by HTTPS and SSH: Access: IP Black List
- Internet Community: PPPoE
- 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



Introduction

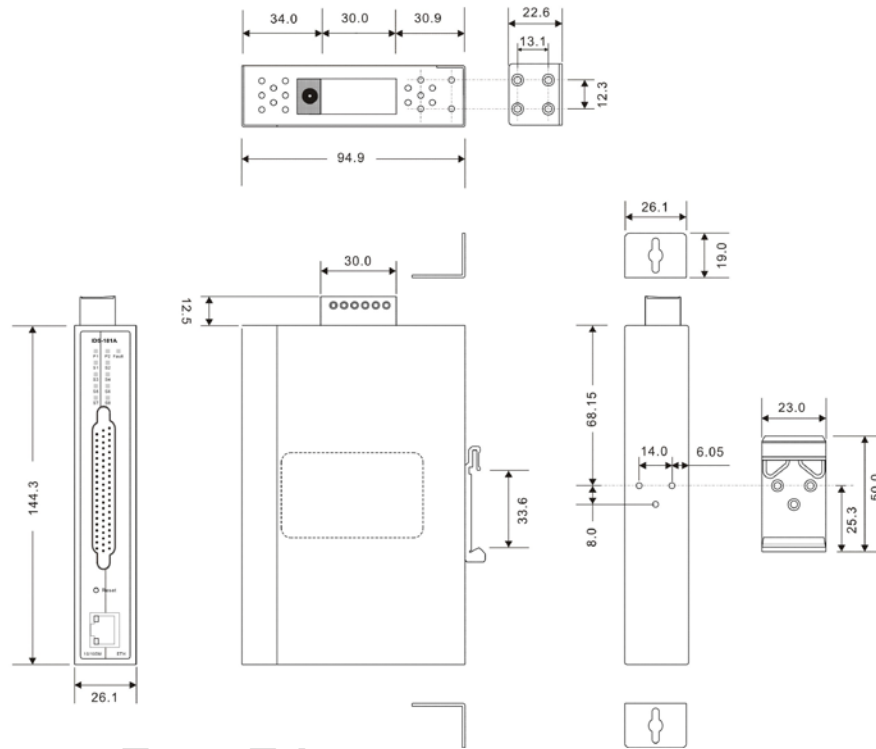
IDS-181A is an innovative 8-port slim type serial to Ethernet device server with 8xRS-232 and 1x10/100Base-T(X) in industrial grade featuring the standard features of device server, such like TCP/IP interface and versatile operation modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP, Ethernet 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, 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-181A can simultaneously transfer data up to 5 redundant host PCs to avoid Ethernet connection breakdown or any host PC fails. Further, IDS-181A features HTTPS, SSH, and SSL encryption to assure the security of critical data transmission.

IDS-181A provides dual redundant power inputs, 12~48 VDC, on DC power jack and terminal block to guarantee a non-stop operation. With wide operating temperature, -10~60°C, and rugged IP-30 housing design, IDS-181A could operate in the harsh industrial environment. Therefore IDS-181A is the best solution to the high demand of serial to Ethernet critical data communication in a limited space.

Dimension

Unit = mm

Dimension (Unit =mm)



Specifications

ORing Device Server Model	IDS-181A
Feature	
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	1
Serial Ports	
Connector	DB 65 x 1 Serial ports : 8
Operation Mode	RS232
Serial Baud Rate	110 bps to 115200 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 Protocol	
	ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP V1/V2c, HTTPS, SMTP

LED indicators	
Power indicator	PWR 1/(2) Green On: Power is on, CPU is booting up.
Fault	Amber is on: PWR 1 fails or PWR 2 fails Amber is blinking: Ethernet link down
10/100TX RJ45 port indicator	Green for port Link/Act ; Yellow for port 10/100Mbps.
Serial TX / RX LEDs:	Green on: Serial port is linked Green blinking: Serial port is transmitting data (TX/RX)
Power	
Redundant Input power	Dual DC inputs. 12-48VDC on 3-pin terminal block and power jack
Power consumption (Typ.)	2.6W
Overload current protection	Present
Reverse polarity protection	Present on terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	94.9 x 23 x 144.3 (mm)
Weight (g)	TBA
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-10~60 °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-1 ABA

Code	Serial	10/100Mbps Ethernet Port Number
Definition	Port Number	
Option	- 8: 8 ports	- 1: 1 port
Available Model	Model Name	Description
	IDS-181A	Industrial 8-port slim type serial to Ethernet device server with 8xRS-232 and 1x10/100Base-T(X)