



IDS-311F

Industrial secure serial port to Ethernet device, 1xRS-232/422/485 to 1x10/100Base-T(X) and 1x100Base Fiber

Features

- Operating Modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP and **Modbus Gateway**
- Support 1xRS-232/422/485 in DB9 connector
- Event Warning by Syslog, Email and SNMP trap
- Configurable by Web-based and Windows utility (**DS-Tool**)
- Various Windows O.S. supported:
Windows NT/2000/ XP/ 2003/VISTA(32/64bit)/ Windows 7(32/64bit)
- Support OpenWRT SDK for project

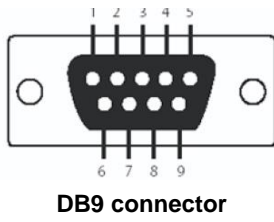


Introduction

IDS-311F is an innovative secure 1 port RS-232/422/485 to 1 port LAN and 1 port fiber device server with standard features of device server.

IDS-311F supports RS-232/422/485 and provides dual redundant power inputs, 12~48 VDC, on terminal block to guarantee a non-stop operation. With wide operating temperature, -40~70°C, and rugged IP-30 housing design, IDS-311F series could operate in the harsh industrial environment. Therefore, IDS-311F is the best solution to the high demand of secure serial to Ethernet critical data communication.

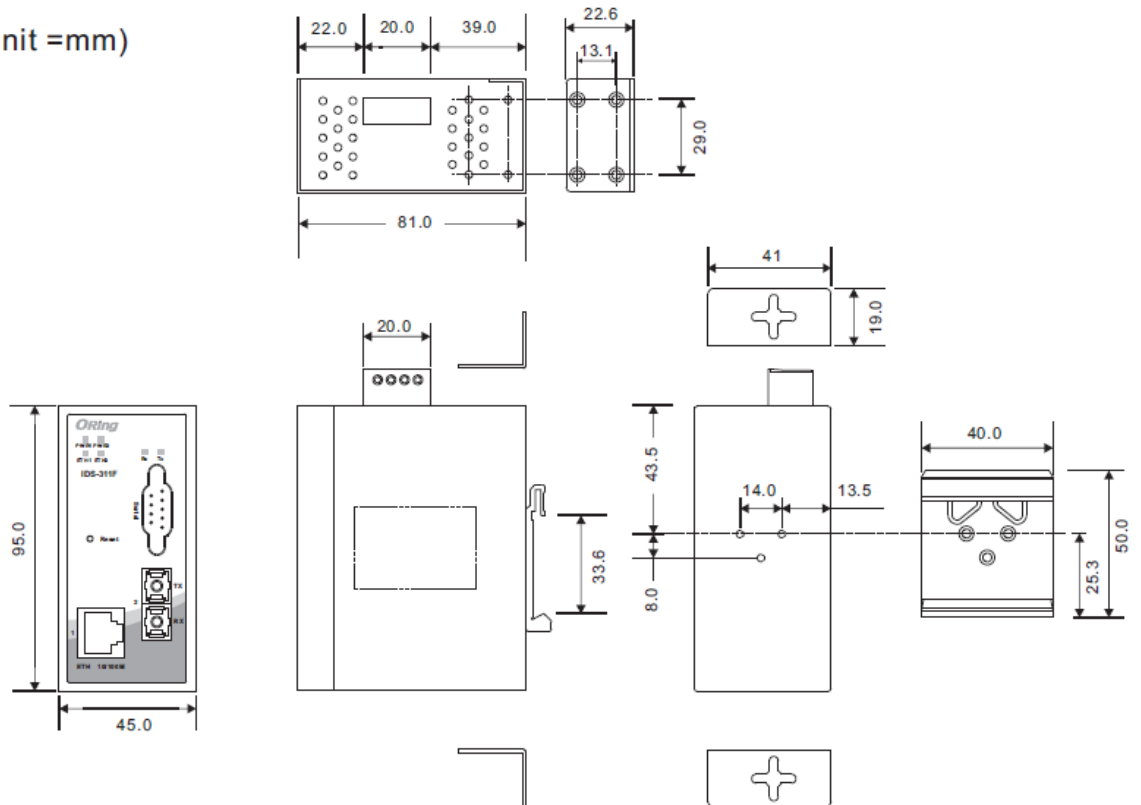
Pin Definition



Pin #	RS-232	RS-422	RS-485 (4 wire)	RS-485 (2 wire)
1	DCD	TX-	TX-	DATA -
2	RXD	TX+	TX+	DATA +
3	TXD	RX+	RX+	
4	DTR	RX-	RX-	
5	GND	GND	GND	
6	DSR			
7	RTS			
8	CTS			
9	RI			

Dimension

Dimension (Unit =mm)



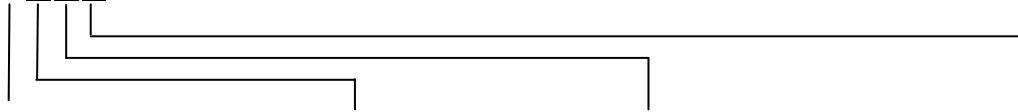
Specifications

ORing Device Server Model		IDS-311F-MM	IDS-311F-SS
Physical Ports			
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX		1	
Fiber Ports Specification	Fiber Ports Number	1	
	Fiber Ports standard	100Base-FX	
	Fiber Optical Connector	SC or ST	
	Fiber Mode	Multi-mode	Single-mode
	Fiber Diameter (µm)	62.5/125 µm 50/125 µm	9/125 µm
	Typical Distance (Km)	2 Km	30 Km
	Wavelength (nm)	1310 nm	1310 nm
	Max. Output Optical Power (dbm)	-14 dbm	-8 dbm
	Min. Output Optical Power (dbm)	-23.5 dbm	-15 dbm
	Max. Input Optical Power (Saturation)	0 dbm	0 dbm
	Min. Input Optical Power (Sensitivity)	-31 dbm	-34 dbm
	Link Budget (db)	7.5 db	19 db
Serial Ports			
Connector	DB9 x 1		
Operation Mode	RS-232/422/485		
Serial Baud Rate	110 bps to 460.8 Kbps		
Data Bits	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-		
RS-485	4 wire: Tx-, Tx+, Rx+, Rx- 2 wire: Data-, Data+		
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR		
Network Protocol			
Protocol	ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP V1/V2c, HTTPS, SMTP		
LED indicators			
Power indicator	2 x LEDs, PWR 1(2) / Ready: Green On: Power is on		
10/100TX RJ45 port indicator (Eth1)	Green for port Link/Act		
100Base-FX Fiber Port Indicator (Eth2)	Green for port Link/Act		
Serial TX / RX LEDs:	Amber: Serial port is receiving data Green: Serial port is transmitting data		
Power			
Redundant Input power	Dual DC inputs. +12 to 48VDC on 4-pin terminal block		
Power consumption (Typ.)	3.98 W		
Overload current protection	Present		
Reverse polarity protection	Present on terminal block		
Physical Characteristic			
Enclosure	IP-30		
Dimension (W x D x H)	45 (W) x 81 (D) x 95 (H) mm		
Weight (g)	309g		
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-3ABC



Code Definition	Serial Port Type	Serial Port Number	Additional port Number	Additional Port Type
Option	- 1: RS-232 - 2: RS-422/485 - 3: RS-232/422/485	- 1: 1ports	- 1: 1 ports	- F: 100Base-FX

Available Model	Model Name	Description
	IDS-311F-MM-SC	Industrial 1 secure serial port to Ethernet device server with 1xRS-232/422/485 and 1x10/100Base-T(X) and 1x100Base-FX, multi-mode, 2Km/1310nm, SC connector
	IDS-311F-SS-SC	Industrial 1 secure serial port to Ethernet device server with 1xRS-232/422/485 and 1x10/100Base-T(X) and 1x100Base-FX, single-mode, 30Km/1310nm, SC connector
	IDS-311F-MM-ST	Industrial 1 secure serial port to Ethernet device server with 1xRS-232/422/485 and 1x10/100Base-T(X) and 1x100Base-FX, multi-mode, 2Km/1310nm, ST connector
	IDS-311F-SS-ST	Industrial 1 secure serial port to Ethernet device server with 1xRS-232/422/485 and 1x10/100Base-T(X) and 1x100Base-FX, single-mode, 30Km/1310nm, ST connector

Packing List

- **IDS-311F x 1**
- **Wall-Mount Kit x 2**
- **CD x 1**
- **Din-Rail Kit x 1**
- **Quick Installation Guide x 1**

Optional Accessories

- **DR-45 series : 45 Watts power supply**
- **DR-75 series : 75 Watts power supply**
- **DR-120 series : 120 Watts power supply**