

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

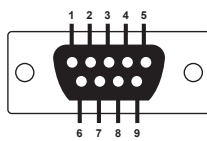


Introduction

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. In addition, IDS-311F features HTTPS, SSH, and SSL encryption to assure the security of critical data transmission.

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.

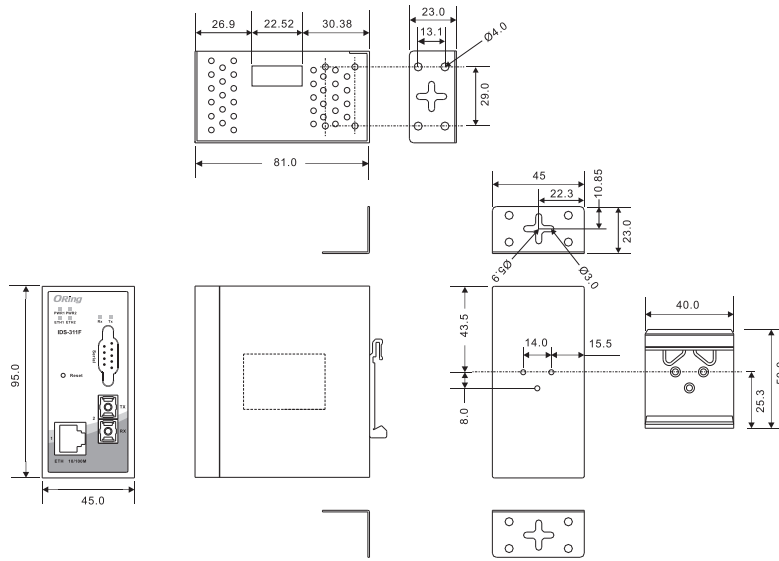
Pin Definition



DB9 connector

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			

Dimensions



Unit =mm (Tolerance ±0.5mm)

Specifications

ORing Switch Model		IDS-311F-MM	IDS-311F-SS
Physical Ports			
10/100 Base-T(X) Ports in RJ45		1	
Auto MDI/MDIX		1	
Fiber Ports Specification	Operation Mode	1	
	Serial Baud Rate	100Base-FX	
	Operation Mode	SC or ST	
	Serial Baud Rate	Multi-mode	Single-mode
	Operation Mode	62.5/125 µm 50/125 µm	9/125 µm
	Serial Baud Rate	2 Km	30 Km
	Operation Mode	1310 nm	1310 nm
	Serial Baud Rate	-14 dbm	-8 dbm
	Operation Mode	-23.5 dbm	-15 dbm
	Serial Baud Rate	0 dbm	0 dbm
Operation Mode	-31 dbm	-34 dbm	
Serial Baud Rate	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		

Industrial Ethernet Switch

Industrial Media Converter

Industrial Device Server

Industrial Wireless Access Point

Industrial Cellular VPN Router

Industrial M2M Gateway

Accessories

Network Management Software

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		
EMC	CE EMC (EN 55024, EN 550032), FCC Part 15B	
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 6100-3-3 FCC Part 15B class A	
EMS	EN 55024 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11 (DIP))	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-31	
Vibration	IEC60068-2-6	
Safety	EN60950-1	
MTBF	762559 hrs	593692 hrs
Warranty	5 years	

Ordering Information

IDS-3 **A** **B** **C**

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: 1 ports	- 1: 1 ports	- F: 100Base-FX

	Model Name	Description
Available Model	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/SDR/DRP Series DIN-Rail power supply