

RDS-3086G

Industrial 8 secure serial ports to Ethernet device server with 8xRS-232/422/485 and 4x10/100/1000Base-T(X) and 2x100/1000Base-X, SFP socket

Features

- Operating Modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP, Modbus Gateway
- Support 8xRS-232/422/485 in RJ48 connector
- Provide 4 Gigabit Ethernet ports and 2 Gigabit Fiber ports in SFP socket
- Redundant multiple host devices:
 5 host devices: Virtual COM, TCP Server, TCP Client mode;
 4 IP ranges: UDP
- Support Modbus Gateway : Modbus TCP, Modbus RTU, Modbus ASCII
- Security: SSL data encryption; secured management by HTTPS and SSH
- Supports 9.6K Bytes Jumbo Frame
- > Built-in 15 KV ESD protection for all serial signals
- Event Warning by Syslog, SNMP trap, Relay and Beeper
- Standard 1U rackmount size
- > 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)





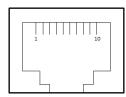
Introduction

RDS-3086G is an innovative secure 8 port RS-232/422/485 to 6 ports LAN secure device server with 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 untility, DS-Tool, could configure multiple devices and set up the mappings of Virtual Com. RDS-3086G, is not only a traditional device server, it also includes the function of Modbus Gateway to convert Modbus TCP to Modbus RTU/ASCII which allows it to be installed in various different application field. On the other hand, RDS-3086G can simultaneously transfer data up to 5 redundant host PCs to aovid Ethernet connection breakdown or any host PC fails. Further, RDS-3086G features HTTPS, SSH, and SSL encryption to assure the security of critical data transmission.

RDS-3086G, the rackmount device which supports 4x10/100/1000Base-T(X) and 2x100/1000Base-X SFP ports. The two Gigabit fiber ports provide high bandwidth and long distance for the use of backbone connection. With wide operating

temperature, -40~70°C, RDS-3086G series could operate in the harsh industrial environment. Therefore, RDS-3086G is the best solution to the high demand of secure serial to Ethernet critical data communication.

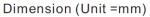
Pin Definition

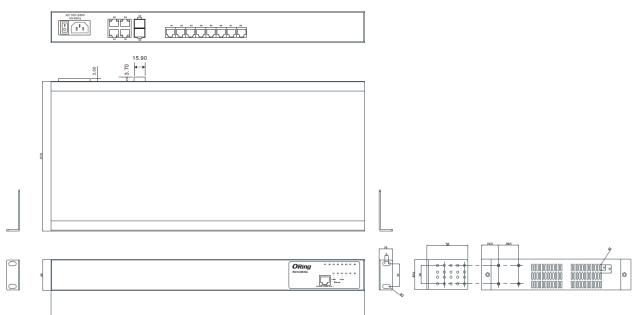


10-pin RJ48 connector

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

Dimension

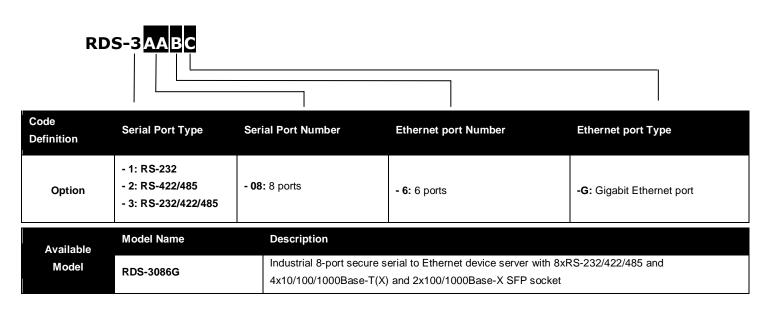




Specifications

ORing Device Server Model	RDS-3086G		
Physical Ports			
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	4		
100/1000Base-X with SFP port	2		
RS-232 Serial Console Port	RS-232 in RJ45 connector. 115200bps, 8, N, 1		
Serial Ports			
Connector (10-pin RJ48)	RJ48 x 8		
Serial Standard	RS-232/422/485		
Serial Baud Rate	50 bps to 921.6 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		
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR		
Network Protocol			
Protocol	ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP V1/V2c, HTTPS		
Jumbo frame	Up to 9.6K Bytes		
LED indicators			
Power indicator	PWR / Ready:		
10/100/1000Base-T(X) RJ45 port	Green On: Power is on Green for Link/Act indicator.		
indicator	Dual color LED for speed indicator : Green for 1000Mbps, Amber for 100Mbps, Off for 10Mbps		
	Serial TX / RX LEDs: Green for Serial port transmitting data, Amber for Serial port receiving data		
LED Display System (Front panel)	G1~G6 : Green for port Link/Act		
-	Fault : indicate unexpected event occurred		
Power			
Power Input	100-240VAC with power socket		
Power consumption (Typ.)	13.4 Watts		
Overload current protection	Present		
Physical Characteristic			
Dimension (W x D x H)	443.7 (W) x 211.5 (D) x 44 (H) mm		
Weight (g)	2792 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 EN61000-4-2 (ESD)		
	EN61000-4-3 (RS),		
EMC	EN61000-4-4 (EFT),		
EMS	EN61000-4-5 (Surge), EN61000-4-6 (CS),		
	EN61000-4-8,		
	EN61000-4-11		

Ordering Information



Packing List

• RDS-3086G x 1

• CD x 1

Quick Installation Guide x 1

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- Rack-mount kit x 1
- Power Cable
- Optional Accessories
- RJ48DB9 series : RJ-48 to DB9 cable