



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)



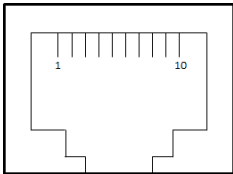
Introduction

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 utility, 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 avoid 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

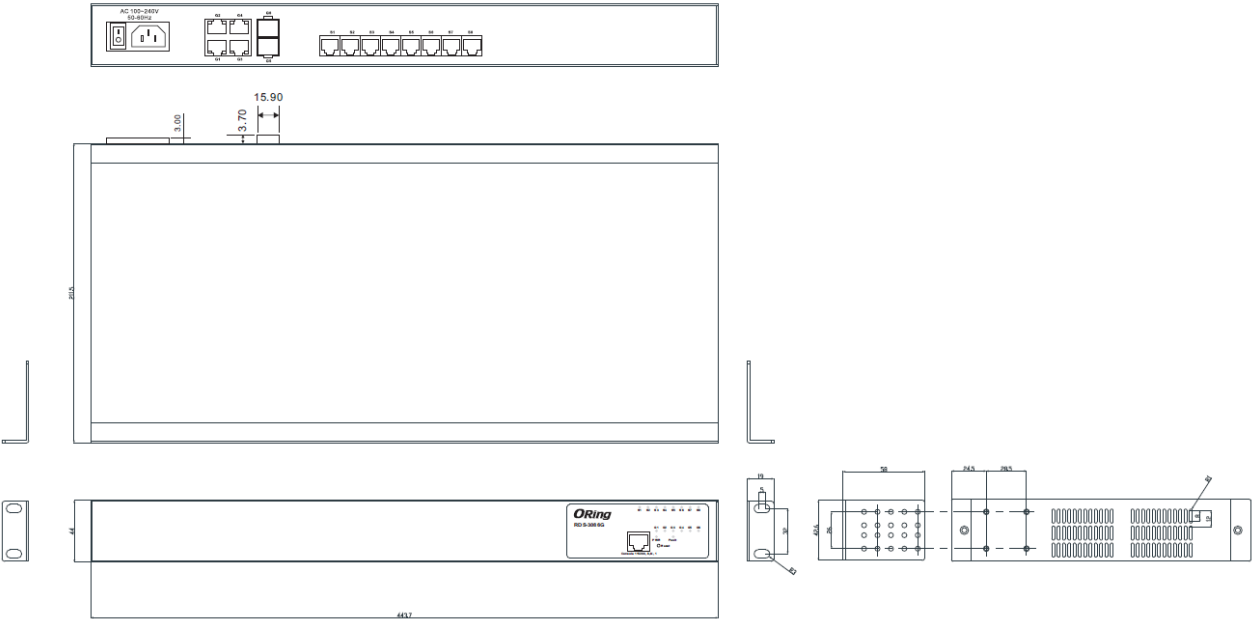


10-pin RJ48 connector

| 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

Dimension (Unit =mm)



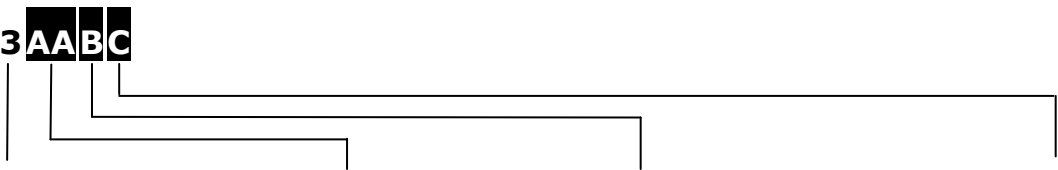
* All specifications are subject to change without notice.

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: Green On: Power is on |
| 10/100/1000Base-T(X) RJ45 port indicator | Green for Link/Act indicator. Dual color LED for speed indicator : Green for 1000Mbps, Amber for 100Mbps, Off for 10Mbps |
| LED Display System (Front panel) | Serial TX / RX LEDs: Green for Serial port transmitting data, Amber for Serial port receiving data 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 |
| 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 |
| Warranty | 5 years |

Ordering Information

RDS-3AABC



| Code Definition | Serial Port Type | Serial Port Number | Ethernet port Number | Ethernet port Type |
|-----------------|---|--------------------|----------------------|---------------------------|
| Option | - 1: RS-232 - 2: RS-422/485 - 3: RS-232/422/485 | - 08: 8 ports | - 6: 6 ports | -G: Gigabit Ethernet port |

| Available Model | Model Name | Description |
|-----------------|------------|--|
| | RDS-3086G | Industrial 8-port secure serial to Ethernet device server with 8xRS-232/422/485 and 4x10/100/1000Base-T(X) and 2x100/1000Base-X SFP socket |

Packing List

- RDS-3086G x 1
- Rack-mount kit x 1
- CD x 1
- Power Cable
- Quick Installation Guide x 1

Optional Accessories

- RJ48DB9 series : RJ-48 to DB9 cable