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Connecting. Converting. Leading!
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Document Name: User Manual for 4 Port RS485/422 Hub Model SC08 S4 Series

SC08S4 is a RS485/RS422 hub, suited for large RS485/RS422 system under complex environment. It supports Baud rate: up to 115.2 Kbps, 3,000A surge protection, Isolation voltage: 2,500V, and is well protected from lightning strike and ESD.

Other features like Auto Select RS485/RS422 mode and support for max: 1.2km enables it to be widely used at Expressway toll system, Road monitoring system, Energy Management etc applications with excellent performance.

One of the major advantage is that SC08 S4 provides Star Topology bus connection. Re-construction of RS485/422 bus structure and network range splitting can be easily realized to improve communication reliability. In the case of lightning strike or equipment failure, the affected Channel/Port is isolated to make sure the normal function of other channel/ports. This feature greatly increases the reliability with shorter time for network maintenance. Proper application of SC08S4 RS485/RS422 HUB can help you to design a high stability RS485/RS422 system.

PRECAUTION: Make sure the installation is properly Earthed at “Eth” pins on the Terminal block.

Technical Parameters

Compliance with RS485/RS422 standards of EIA/TIA

Electric interface : RS485/RS422

Transmission media : Twisted-pair cable or shielded cable.

Working mode : Asynchronous half-duplex or full duplex.

LED Indication : 7 signal indicators including power (PWR), send (TXD), receive (RXD)

and Failure (E1-E4)

Isolation voltage : 2,500V RMS and DC/DC isolation module.

Baud rate : 300 to 115.2KBPS

Working voltage : DC9 to 48V, 150mA **AND**
: 230V AC built in

Transmission distance : 0-1.2km

Dimensions : 210m×130mm×30mm

Working environment:

Operating Temp : -40°C to 85°C

Relative humidity : 5% to 95%

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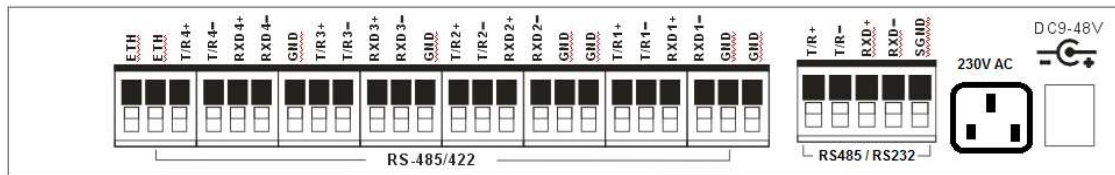


Panel and Signal indicators

7 indicator lights on the front panel. On the back panel there is 1 of 5-pin terminal for RS485 or RS232. Input 4 ports 3-pin terminals for Isolated RS485/422 ports.



Front Panel



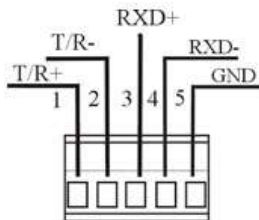
Back Panel

Indicator Details

- PWR : Power, green for power on.
- TXD : Data sending indication, green for normal transmission from Input port to OUTPUT ports 1-4
- RXD : Data receiving indication, yellow for normal transmission from OUTPUT ports 1-4 to Input Port.
- E1-E4 : Failure alarm indicators for ports 1-4, the lights stay ON to indicate short circuit or wrong Signal connection of ports 1-4. E1 is for port 1, E2 for port 2, and so on.

Electric Interfaces and definitions:

RS485/RS422 Pin out definition

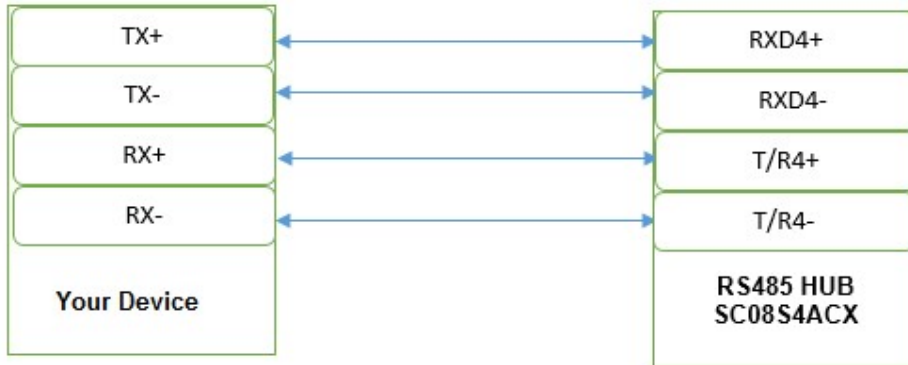


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Input Port

Connection Details: RS485 – 4 Wire.



Connection Details: RS485 – 2 Wire



Common Port

Connection Details: RS485



Common Port

Connection Details: RS232



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Application Diagram

Applications of connection from RS485/RS422 serial port of host to multiple RS485/RS422 interfaces, and a maximum of 128 RS485/RS422 hubs can be connected simultaneously to RS485/RS422 BUS.

