

San Telequip (P) Ltd.,  
 4 Crystal House, 235, Navi Peth  
 Off LBS Road, Pune 411 030, India  
 Phone : 91-20- 24320023, 24334423, 65001587  
 email : info@santelequip.com



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**Document Name : User Manual for 4 RS485 Hub, Model SC08 S4**

SC08S is a RS485 hub specially designed to meet the requirements of RS485 under difficult field environments. A transmission rate as high as 115.2 Kbps is supported, RS485 is 2.5KV Opto isolated, 1500W surge protected to avoid lighting or surges, ensuring safety and reliability of the device. All the terminals are Short circuit protected.

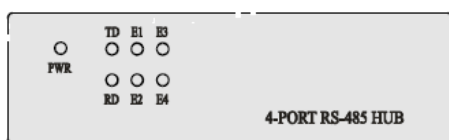
The transmission distance is as far as 1200 meters. This product is widely used in Express way toll system, Energy monitoring system etc.

**Specifications**

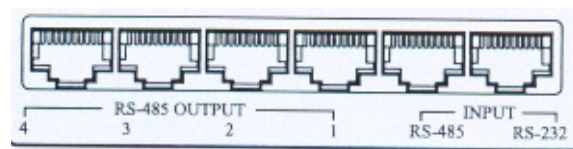
- Interface : Compatible with RS232C and RS485 standards of EIA/TIA
- Serial Input : RJ45 ports for RS232 & RS485
- Working mode : Asynchronous half-duplex
- Indicators : 7 signal indicator including P, TD, RD and failure (E1-E4)
- Isolation : 2500 VRMS
- Baud rate : 300bps -115.2Kbps
- Protection RS-232 : 15KV ESD
- Protection RS-485 : 1500W lightning strike surge protection for each line
- Protection : Short Circuit
- Port Isolation : Each port is isolated with all other ports
- Transmission distance : 1200m
- Dimension : 90mm X 69mm X 23mm
- Power Supply : 230V AC External adapter. 5V DC, 1A output
- Working environment : Temp 0 to 50°C, Relative humidity 5% to 95%

**Panel and Indicators**

There are 7 indicator lights on the front panel of SC08S, and on the back panel there are RJ45 connectors for RS485 or RS232 ports



Front Panel



**Back Panel**

- PWR Power, Green for Power ON
- TXD Data send from Input to 4 Output ports, Green for normal transmission
- RXD Data receive from 4 Output to 1 Input port, yellow for normal reception
- E1-E4 Failure alarms, ON to indicate short circuit or wrong signal connection of ports 1-4

**Pin Definitions**



| RS232 Interface |            |           | RS485 Interface |          |
|-----------------|------------|-----------|-----------------|----------|
| RJ 45 Connector | Definition | Direction | RJ 45 Connector | RS485    |
| 2               | TX         | OUT       | 1, 2            | TX+/D+   |
| 3               | RX         | IN        | 3, 4            | TX- / D- |
| 5               | GnD        |           | 7, 8 of Port 4  | Ground   |

**Cable Connection Diagram**

| RJ45 | Pin | TO | DB9 Male | RS232 |
|------|-----|----|----------|-------|
| TX   | 2   |    | 2        | RX    |
| RX   | 3   |    | 3        | TX    |
| GND  | 5   |    | 5        | GND   |

**Note : Pin 7 & 8 of Port 4 is Protection Ground for Surge circuit. Ground these pins properly**

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### Application

