

SRWF-Smart RF (RS485) Transceiver Terminal User Manual



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I. Application Field

- 2 AMR system about the water, gas, electric and central heating
- 2 Wireless data collecting system
- 2 Data transmission system in the railway station, oil field, dock, army field and so on
- 2 Medical treatment and electric meter remote control system
- 2 Home and building automation system, street lamp wireless control system
- 2 Wireless intellectual over-weight detecting system
- 2 Queue management system in the bank, hospital, hall and so on
- 2 Wireless alarm and security systems
- 2 Data radio can be used for Wireless conference voting system
- 2 Radio modem can be used for Sports training & competition
- 2 Wireless dishes ordering
- 2 RF modem can be used for Electronic bus station and intelligent traffic
- 2 RF transmitter Wireless electronic display screen and queuing machine
- 2 Wireless telemetry charging for parking, parking lot
- 2 Wireless modem Automobile inspection and four-wheel orientation
- 2 Wireless sensor Industrial wireless remote control and air conditioning remote controller
- 2 Observation and predication of oil well and hydrological information
- 2 Point to multi-point wireless network, wireless on-the-spot bus and automatic data collection system

II. Features

- + Can be used in any standard or nonstandard user protocol
- + High anti- interference and low BER(Bit Error Rate)
- + Long transmission distance
- + 8/16/32 signal channels to be selected
- + Baud rate is 1200/2400/4800/9600/19200bps with data format of 8N1/8O1/8E1/9N1 and user self-definition

- ✚ A variety of antenna options
- ✚ Advanced solution of using signal RF IC and signal MCU ,less peripheral circuits, high reliability, and low false bit rate

III. Technical specification

| | | |
|---------------------------------------|---|---------------------------------------|
| Modulation mode | GFSK/FSK | |
| Channel counts | 8/16/32 channels | |
| Interface velocity | 1200/2400/4800/9600/19200bps | |
| Interface | RS-485 | |
| Power supply | 5V/5W | |
| Working temperature | -25 ~75 | customized -40 ~85 |
| Working humidity | 10%~90%(relative humidity without condensation) | |
| Dimension | 78.5mm×45.5mm×19.0mm | |
| Reliable transmission distance | 300m ~ 2500m | depend on module 、 antenna、 baud rate |

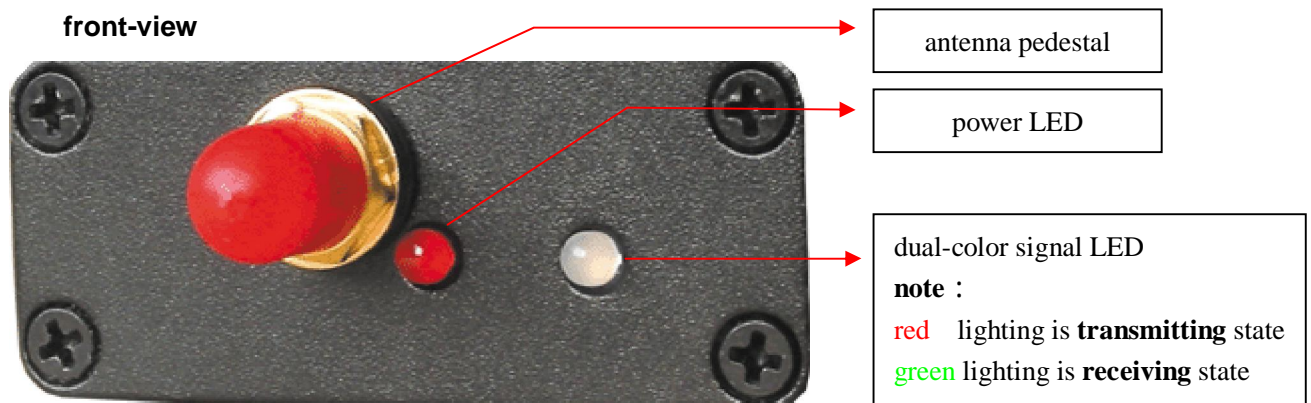
IV. The module inside can be selected

SRWF-102 Series : SRWF-1021, SRWF-1028

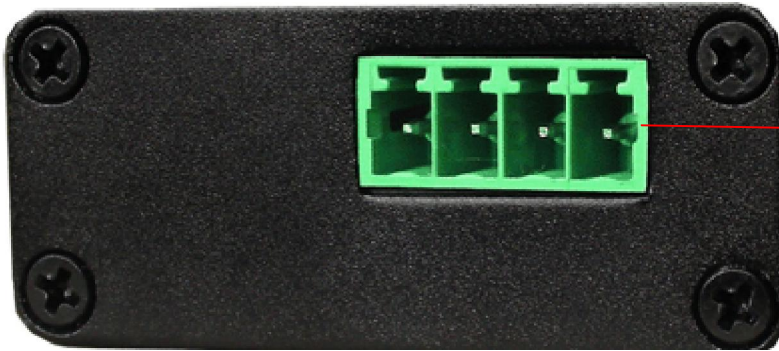
SRWF-11 Series : SRWF-1101, SRWF-1108

SRWF-50 Series : SRWF-501, SRWF-501-50,SRWF-508

V. Appearance



Back-view



Power and RS-485 interface

Top-view



VI. Connection



VII. Product Size



Unit: mm

VII. Technical Support and After Service

We provide full technical support for our clients on applications and secondary development. Our products have one-year warranty and perpetual maintenance services.