STONEX

# SR35 External Radio

External Radio
5/35 Watt




suite cube

# SR35 TECHNICAL FEATURES

**RADIO MODEM HIGH POWER UP TO 35W**

SR35 is a high power radio modem for transmitting RTK corrections from a basic GNSS receiver. The transmission power can be selectable by the user from 5W up to 35W reaching distances up to 50km. The radio has numerous settings that can define communication protocols, channel width and transmission frequency, thus full compatibility with other external radio modems or integrated in a GNSS receiver.

**FULL OPERATING MODE**

SR35 is used to transmit RTK corrections from a base station, but can also be used as a radio receiver. In addition, the retransmission function can be activated, or the radio placed between a base and a rover increasing the coverage area of the RTK correction. Finally, the Network Repeater functionality allows the SR35 to receive an RTK correction through the integrated GSM modem and retransmit it through the radio modem (Bridge Functionality).

**SOFTWARE AND ANDROID APP FOR SIMPLE MANAGEMENT**

For a simple configuration of the radio it is possible to use the PC software or the APP developed in an Android environment which allows a fast and complete management of the SR35.

## GENERAL

| | |
|---|---|
| Frequency | 410MHz~470MHz |
| Operating Mode | Transceiver |
| | Transmitter |
| | Radio Repeater |
| | Network Repeater |
| Channels | Up to 200 programmable channels (user selectable) |
| Operating Voltage | 9V~16V |
| Frequency Stability | ±1ppm |
| Frequency error tolerance | 1KHz' |

## POWER

| | |
|---|---|
| Transmit Output Power H: (35W) | 85W@12V DC |
| Transmit Output Power M: (22W) | 60W@12V DC |
| Transmit Output Power L: (5W) | 35W@12V DC |
| Sleep State | 2W@12V DC |

## BLUETOOTH

| | |
|---|---|
| Bluetooth Version | 2.0/4.0 |
| Bluetooth Antenna | Built-in |

## 4G (USA)

| | |
|---|---|
| 4G bands[MHz] | B2(1900), B4(1700), B5(850), B12/B13(700) |
| 3G bands[MHz] | B2(1900), B5(850) |

## 4G (Europe)

| | |
|---|---|
| 4G bands[MHz] | B1(2100), B3(1800), B7(2600), B8(900), B20(800) |
| 3G bands[MHz] | B2(2100), B8(900) |
| 2G bands[MHz] | B3(1800), B8(900) |

## TRANSMITTER

| | |
|---|---|
| H:35W | 45.4±0.5dBm @DC 12V |
| M:22W | 43.4±0.5dBm @DC 12V |
| L:5W | 37±1dBm @DC12V |
| RF Power Stability | ±1dB |

## RECEIVER

| | |
|---|---|
| Sensitivity | <-114dBm@BER $10^{-3}$, 9600bps |
| Intermodulation Attenuation | >60 dB |
| Co-Channel rejection | >-12dB |
| Spurious Radiation | <2 nW |

## DATA MODEM

| | |
|---|---|
| Data Rate | 4800bps/9600bps/19200bps |
| Data Speed of Serial Interface | 9600, 19200, 38400, 57600, 115200 bps |
| Channel Width | 12.5KHz/25KHz |
| Modulation | GMSK/4FSK |
| Protocols | Trasparent EOT<br>Trimmark<br>Trimtalk<br>Satel |

## PHYSICAL SPECIFICATION

| | |
|---|---|
| Ingress Protection Rating | IP67 |
| Dimension | 175(H)×130(W)×86.5(D)mm |
| Weight | 2kg |
| Operating Temperature | -40°C to 75°C (-40°F to 167°F) |
| Storage Temperature | -50°C to 85°C (-58°F to 185°F) |
| Connector antenna | TNC female |
| Data Connector | LEMO 5pin |




Illustrations, descriptions and technical specifications are not binding and may change

STONEX AUTHORIZED DEALER

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UNI EN ISO 9001:2015 - SR35 - NOVEMBER 2020 - VER 02 - REV-02