

## SR35 External Radio

External Radio  
5/35 Watt



# 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 <sup>-3</sup> , 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	Transparent EOT
	Trimmark
	Trintalk
	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

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