

SR02 External Radio

2 Watt Radio
with Bluetooth



SR02 TECHNICAL FEATURES

RADIO MODEM 2W POWER

SR02 is a high power radio modem for transmitting RTK corrections from a GNSS receiver. The transmission power can be selectable by the user from 0.5W to 2W reaching distances up to 10km. 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

SR02 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 and the radio placed between a base and a rover increasing the coverage area of the RTK correction. The connection of the SR02 radio with a GNSS receiver is done via the serial port or via Bluetooth. Through Bluetooth mode the SR02 radio can transform the receiver into a RTK rover receiver (network only) to work in the base/rover configuration. The Stonex S70G, S580 and S700A GNSS receivers can be connected to the SR02 radio via Bluetooth without the use of external cables.

SOFTWARE FOR SIMPLE MANAGEMENT

For the configuration of the radio it is possible to use the PC software which allows a fast and complete management of the SR02. Through the integrated display it is possible to modify the configuration of the radio in a simple and fast way directly in the field.

GENERAL

Frequency	410MHz~470MHz
Operating Mode	Receiver Transmitter Repeater
Frequency Stability	±1ppm
User interface	1.9" LCD display, 16 characters with navigation buttons

POWER

Internal battery	6800 mAh Li-ion rechargeable
Continuous Working Period	8h
Charging Time	8h
Operating Voltage	6V~9V

BLUETOOTH

Bluetooth Version	2.0/2.1
Bluetooth Antenna	Built-in

TRANSMITTER

H:2W	33±0.5dBm @DC 7.5V
L:0.5W	27±1dBm @DC 7.5V
Power Stability	±1dB

RECEIVER

Sensitivity	<-114dBm@BER 10 ⁻³ , 9600bps
Adjacent channel selectivity	>50dB@25KHz

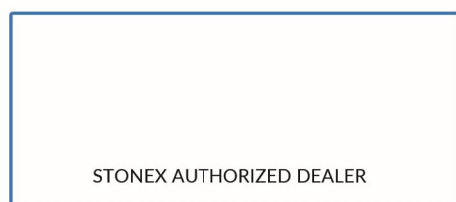
DATA MODEM

Air data rate	4800/9600/19200 bps
Serial port data rate	9600/19200/38400/57600/ 115200 bps
Channel Width	12.5KHz/25KHz
Modulation	GMSK/4FSK
Protocols	Transparent EOT Trimmark3 Trimtalk Satel

PHYSICAL SPECIFICATION

Ingress Protection Rating	IP67
Dimension	150 x 83 x 31mm
Weight	560g
Operating Temperature	-30°C to 65°C (-22°F to 131°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Connector antenna	TNC female
Data/Power connector	1 RS-232 port, 5pin lemo

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



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