

SOKKIA

MADE TO FIT YOUR WORLD.

R4S-BT

Radio Modem





First-class Connectivity

R4S-BT is an innovative radio modem designed to offer superior RTK performance with GNSS receivers. This is a unique solution with integrated batteries and features Bluetooth® communication. At the same time; it provides an external UHF option for the GCX receiver product line.

Like all of our products, you can customize it to meet your needs and create your own workflows.

- Wireless modem configuration and data transfer via Bluetooth®
- Light, weighing only 400 g
- Long operational time
 - Receive Mode: 20 hours
 - Transmit Mode: 6 hours at 1 W
- IP67 Rating

Extend your range

The R4S-BT combines a UHF radio modem, Bluetooth, and an internal battery all together in a rugged IP67 classified housing. If you need to extend the communication radio range between between your RTK Base Station and Rover, the R4S-BT is a perfect fit.

Get more out of your existing equipment

If you already have a GCX3 but find yourself on a bigger job site or without a clear line-of-sight, you're now able to extend the range from up to 300 m to miles. Even if you have a third-party GNSS receiver, our open architecture lets you easily adapt the R4S-BT into your workflow and create a modular solution.

Stay connected

The R4S-BT is perfect in situations without a network connection, or where network or cellular connections are poor. Simply add on this external UHF radio and extend the range between the base and rover.



Ready for the field

With an IP67 certification, the R4S-BT is ready to tackle even the toughest jobs. The housing is water and dustproof for rough outdoor conditions.



Stay charged

The 7200 mAh battery lets you get more done on the job without the need to recharge during the workday. You can get up to 20 hours in receive mode and 6 hours in transmit mode at 1 W.



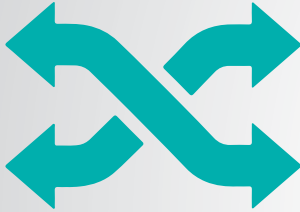
Affordable and upgradeable

By using the R4S-BT, you get one of the most budget friendly UHF base and rover options available. It provides a low-cost way to turn your SiteComm rover into a UHF rover.



Light and versatile

Even though it's built to withstand the harshest of environments, weighing in at only 400 g, the R4S-BT is light and easy to carry and mount. The R4S-BT also offers flexible mounting options to help adapt to your needs in the field.

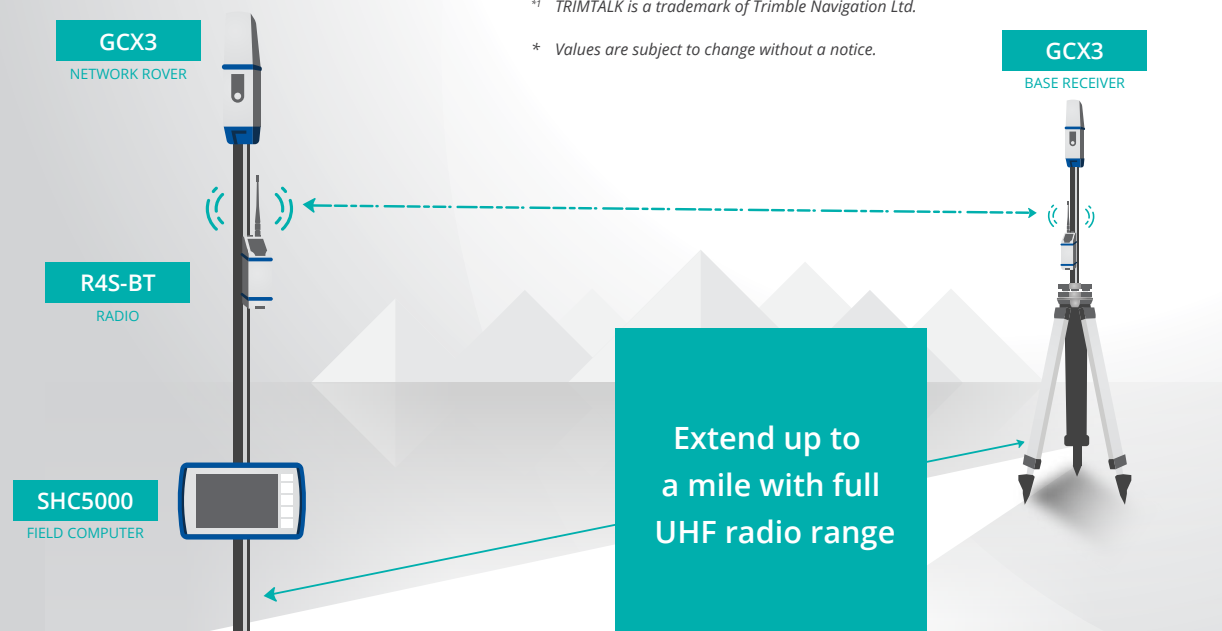


Specifications

Technical Specifications	
Frequency	403 - 473 MHz
Channel Width	12.5 / 25 kHz (Software selectable)
Carrier Power	0.1, 0.2, 0.5, 1 W / 50 ohm
Interface	RS-232 / USB
USB	USB to serial interface
Bluetooth	BT2.1 + EDR and BLE 4.1 wireless connectivity
Data Speed of Serial Interface	9600 - 115200 bps
Data Speed of Radio Interface	28800 bps (25 kHz)
Modulation	4FSK, 8FSK, 16FSK, GMSK (PacificCrest, TRIMTALK*) ¹
Battery	7200 mAh
Operational Time (estimated)	6 hours at TX 1 W (50 %) 8 hours at TX 0.5 W (50 %) 20 hours at RX only
Charging Time	4 hours at 2A (estimated)
General Specifications	
Operating Voltage	12 to 30 VDC
Power consumption 12 VDC	Charging 7.4 W Charging + RX 8.4 W Charging + TX 13.2 W at 1 W RF Device off 0.46 W RX 1.32 W TX 5.8 W at 1 W RF
DC charger	12 VDC
Chassis	IP67 class
Buttons	Power On/Off Bluetooth® On/Off
Indicator LEDs	Power, Bluetooth, TX / RX data
Temperature Range	Operating: -20°C to 60°C Storage: -40°C to 85°C
Size (h x w x d)	163 x 49 x 49 mm
Weight	420 g
Connectors	M12 circular / TNC female

¹ TRIMTALK is a trademark of Trimble Navigation Ltd.

* Values are subject to change without a notice.



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