

R4T-BT External Radio



Compact Performance

Stay connected

The R4T-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 R4T-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.

First-class connectivity

R4T-BT is an innovative external radio designed to offer superior RTK performance with GNSS receivers. This unique solution includes integrated batteries and features Bluetooth® communication. The R4T-BT is an external UHF option for the HiPer SR receiver product line.

Light and versatile

Even though it's built to withstand the harshest of environments, weighing in at only 420 g, the R4T-BT is light, easy to carry and has flexible mounting options.

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®	BT 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	IP67 class	
Chassis	28800 bps (25 kHz)	
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.