

# Solutions for the toughest challenges

Quality radio modems for wireless data communication



## SATEL Compact-4BT

SATEL Compact-4BT is portable radio modem with wireless connectivity.

- UHF multichannel radio modem (tuning range up to 70 MHz)
- New model structure IP67 classified chassis with internal batteries, easy to carry, versatile mounting options
- Wireless modem configuration via Bluetooth (Android app)
- Wireless data transfer via Bluetooth (SPP)
- USB connections (serial data, modem configuration)
- Exceptional vibration tolerance; excellent choice for robust mobile use

SATEL Compact-4BT is compatible with SATELLINE-EASy products.

## GNSS

SATEL's radio modems and modules offer a first-class solution for GNSS RTK, remote measurement and control applications. They are used e.g. in land surveying, precision farming, machine control, harbor logistics and port cranes.

# SATEL

**Mission-Critical Connectivity**

Read more: [www.satel.com](http://www.satel.com)

SATEL is one of the world's leading experts and innovators of radio modems for wireless data communication. Our solutions are used in wide range of industrial applications. We are known for our high quality, expertise, service and support.

**You can contact us directly or get in touch with your local distributor.**

# For heavy-duty outdoor use

SATEL Compact-4BT is an IP67 (NEMA 6) classified UHF radio modem with integrated battery, Bluetooth, wide tuning range and selectable channel spacing. It is designed for easy mobile use in demanding field conditions. IP67 ensures it is waterproof and secured against dust.



## SATEL Compact-4BT

### TECHNICAL SPECIFICATION

<b>Frequency</b>	403 ... 473 MHz	
<b>Channel Width</b>	12.5 / 25 kHz (Software selectable)	
<b>Carrier Power</b>	0.1, 0.2, 0.5, 1 W / 50 ohm	
<b>Interface</b>	RS-232 / USB	
<b>USB</b>	USB to serial interface	
<b>Bluetooth</b>	BT2.1 + EDR and BLE 4.1 wireless connectivity	
<b>Data Speed of Serial Interface</b>	9600 – 115200 bps	
<b>Data Speed of Radio Interface</b>	28800 bps (25 kHz)	
<b>Modulation</b>	4FSK, 8FSK, 16FSK, GMSK (PacificCrest, TRIMTALK*)	
<b>Battery</b>	3350 mAh Li-ion	
<b>Operational Time (estimated)</b>	6 hours	@ TX 1 W (50 %)
	8 hours	@ TX 0.5 W (50 %)
	20 hours	@ RX only
<b>Charging Time</b>	4 hours	@ 2A (estimated)

### GENERAL

<b>Operating Voltage</b>	+12 ... +30 Vdc	
<b>Power consumption 12 Vdc</b>	Charging	7.4 W
	Charging + RX	8.4 W
	Charging + TX	13.2 W @ 1 W RF
	Device OFF	0.46 W
	RX	1.32 W
	TX	5.8 W @ 1 W RF
<b>DC charger</b>	+12 Vdc	
<b>Chassis</b>	IP67 class	
<b>Buttons</b>	Power ON / OFF Bluetooth ON / OFF	
<b>Indicator LEDs</b>	Power, Bluetooth, TX / RX data	
<b>Temperature Range</b>	-25 °C ... +60 °C (functional) -40 °C ... +85 °C (storage)	
<b>Size H x W x D</b>	165 x 55 x 55 mm	
<b>Weight</b>	420 g	
<b>Connectors</b>	M12 circular / TNC female	

Values are subject to change without a notice.

\* TRIMTALK is a trademark of Trimble Navigation Ltd.