



# Small solutions with big impact

High-quality radio modules for wireless data communications



## GNSS

Accurate and up-to-date data transfer in precise positioning systems is vital. SATEL's radio modems and modules offer a first-class solution e.g. for GNSS RTK, remote measurement and control applications. They combine quality, continuity, flexibility and low life cycle costs. Examples of GNSS systems that use SATEL's radio modems and modules include land surveying, precision farming, machine control, harbor logistics and port cranes.

## OEM

SATEL have produced a range of OEM radio modules for system manufacturers to integrate into customer solutions. They are secure, customizable and flexible in mounting options. SATEL's solutions are widely compatible and also support other manufacturers' radio protocols.

# SATEL

**Mission-Critical Connectivity**

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

SATEL is one of the world's leading experts and innovators of radio technology for wireless data communications. Our solutions are used in a 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.**



## Fast and easy to integrate

**SATELLINE-M3-TR9** is a small Freewave and Intuicom compatible frequency hopping transceiver module that is easy to integrate into a host device. Approved and ready to use in Canada and the USA.

- Low power consumption
- Wide operating voltage range
- Functional temperature from  $-40^{\circ}\text{C}$  up to  $+70^{\circ}\text{C}$
- Can be used in different weather conditions
- Exceptional vibration tolerance

### SATELLINE-M3-TR9

- **FREQUENCY RANGE**  
902 ... 928 MHz
- **SENSITIVITY / CARRIER POWER**  
-109 dBm / 1 W
- **OPERATING VOLTAGE**  
+3.5 ... 5.5 Vdc
- **SPREADING METHOD**  
Frequency hopping
- **INTERFACE**  
CMOS-UART
- **POWER CONSUMPTION**  
0.4 W (RX) /  
3.3 W (TX 1 W)
- **HOPPING BANDS**  
7, user selectable
- **DATA SPEED**  
Radio / Serial  
115200 bps
- **SIZE/WEIGHT**  
57 x 36 x 6.7 mm /  
20 g
- **HOPPING PATTERNS**  
15 per band, 105 total,  
user selectable
- **VIBRATION TOLERANCE**  
25 g, up to 2 kHz  
sinusoidal
- **CONNECTORS**  
1.27 mm pitch  
socket / U.FL
- **HOPPING CHANNELS**  
50–112, user selectable

SATELLINE-M3-TR9 is a part of the SATELLINE-M3 module family, which covers all the common frequency ranges: 403–473 MHz, 865–867 MHz, 868–870 MHz and 902–928 MHz. SATELLINE radio modules suit all kinds of needs of OEM customers.

