



# 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 - the world's leading expert and innovator in wireless networking technology.

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.**



## Fast and easy to integrate

**SATELLINE-M3-R9** is a frequency hopping spread spectrum receiver module that is, thanks to its small size, 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

- |   |   |   |
|---|---|---|
| • <b>FREQUENCY RANGE</b><br>902 ... 928 MHz                             | • <b>SENSITIVITY</b><br>-109 dBm                                | • <b>OPERATING VOLTAGE</b><br>+3.5 ... +5.5 Vdc       |
| • <b>SPREADING METHOD</b><br>Frequency hopping                          | • <b>INTERFACE</b><br>CMOS-UART                                 | • <b>POWER CONSUMPTION</b><br>0.3 W (RX)              |
| • <b>HOPPING BANDS</b><br>7, user selectable                            | • <b>DATA SPEED</b><br>Radio / Serial<br>115200 bps             | • <b>SIZE/WEIGHT</b><br>57 x 36 x 6.7 mm /<br>20 g    |
| • <b>HOPPING PATTERNS</b><br>15 per band, 105 total,<br>user selectable | • <b>VIBRATION TOLERANCE</b><br>25 g, up to 2 kHz<br>sinusoidal | • <b>CONNECTORS</b><br>1.27 mm pitch<br>socket / U.FL |
| • <b>HOPPING CHANNELS</b><br>50-112, user selectable                    |   |   |

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

*Values are subject to change without a notice.*

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