

We help you solve challenges

Quality radio modems and modules for wireless data communication

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.



Read more: www.satel.com

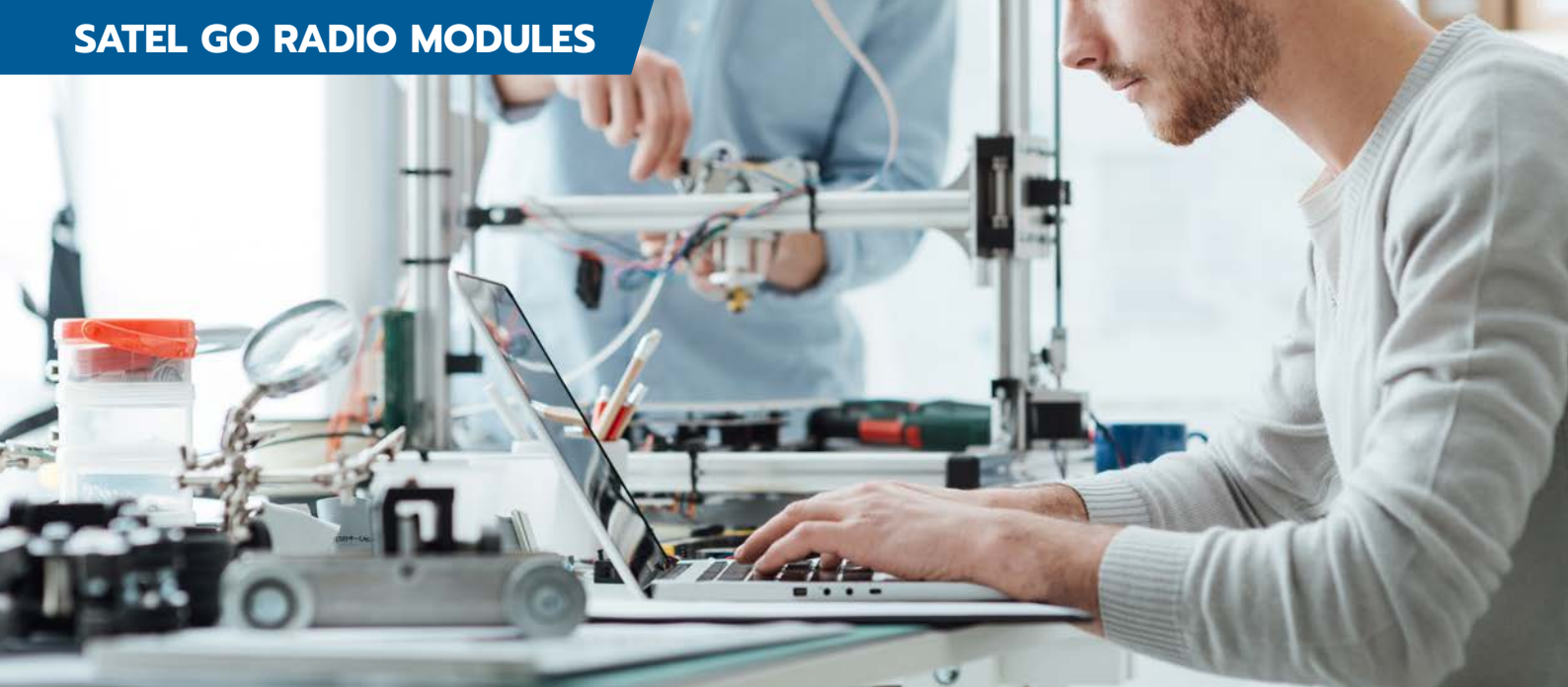
SATELGO

Mission-Critical Connectivity

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

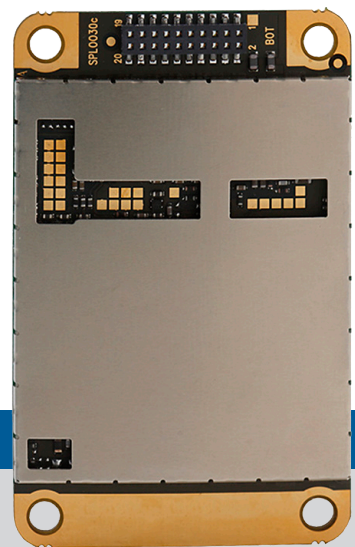
Our solutions are used in wide range of industrial applications. We are known for our high quality, expertise, service and support.

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



Small module on the move

SATEL-TR49 is compatible with SATELLINE / SATEL product lines on 410-475 MHz and on 902-928 MHz bands. SATEL-TR49 is a frequency hopping spread spectrum transceiver module that is, thanks to its small size, easy to integrate into a host device.



SATEL-TR49

RADIO TRANSCEIVER SPECIFICATIONS 902-928 MHz

Frequency range

902 ... 928 MHz

Spreading method

Frequency hopping

Hopping bands

7, user selectable

Hopping patterns

15 per band, 105 total, user selectable

Hopping channels

50-112, user selectable

Sensitivity / Carrier power

-109 dBm / 1 W

Data speed

Radio / Serial 115200 bps

Modulation

2-GFSK

RADIO TRANSCEIVER SPECIFICATIONS 410...475 MHz

Frequency range

410...475 MHz

Tuning range

65 MHz

Channel spacing

12.5 / 20 / 25 kHz, selectable

Sensitivity / Carrier power

-120 dBm for 1% BER / 1 W

Data speed

Radio 19200 bps /
Serial 115200 bps

Modulation

GMSK, 4-GFSK

GENERAL SPECIFICATIONS

Vibration tolerance

25 G, up to 2 kHz sinusoidal

Operating voltage

+3.7 ... +5.5 Vdc

Power consumption

900 MHz:
440 mW (RX) / 4.1 W (TX 1 W)
400 MHz:
440 mW (RX) / 4.8 W (TX 1 W)

Size / Weight

57 x 36 x 6.9 mm / 18 g

Connectors

1.27 mm pitch socket / U.FL

Interface

CMOS-UART

Temperature range

-40 ... +70 °C (operational)

Complies with requirements in:

EU
USA
Canada
Australia
New Zealand
Brazil

Values are subject to change without a notice.