SATELLINE-EASy and -M3-TR1

(For Indian licence free 865–867 MHz channels)

SATELLINE-EASy is a state-of-the-art transceiver radio modem providing a compact and flexible solution for many different long range applications. It can be equipped with an LCD and push buttons for facilitating the configuration of the radio modem.

SATELLINE-EASy radio modem is also available as a radio module, called SATELLINE-M3-TR1.

Available as:

VHF
▶ **UHF**
▶ **Licence free**
NMS
IP67

Product type:

▶ **Classic**
Smart
▶ **OEM**

3D picture

Setting up a local data transfer network is quick and cost effective with SATEL radio modems. The wireless network is independent and free of operator services. The cost of operation is either free of charge or fixed, depending on the frequency used. SATELLINE radio modems are type-approved in over 50 countries.

SATELLINE radio modems are always on line and provide reliable, real-time data communications over distances ranging from tens or hundreds of metres up to around 80 kilometres. Thanks to a store and forward function, any radio modem in a network can be used as a master station, substation and / or repeater.

SATELLINE radio modem networks are flexible, easy to expand and can cover a wide variety of solutions from simple point-to-point connections to large networks comprising hundreds of modems. Even for expanded networks, only one operating frequency is required.

For the latest information, please visit www.satel.com

SATEL

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SATELLINE-EASy
(For Indian licence free channels)

This variant of SATELLINE-EASy is ready to use on the Indian licence free channels 865–867 MHz with default settings. It is allocated for narrowband telemetry, alarm and data transfer applications.

With high 1 W output power, good sensitivity, small size and low power consumption the radio modem meets the technical requirements set on wireless communications in a number of applications where controlling, monitoring, metering or alert sensor systems are part of the operation.

Building a data transfer network is easy and straightforward. A pair of radio modems is all you need to set up the datalink - no configuration is required. To have more functions the modem can be easily configured with a terminal program (or with the display in the modem).

The radio modem network coverage can be easily extended by using some of the radio modems as repeater stations. With the store and forward function, the radio modem buffers the received data and transmits it further using the same radio frequency as used in reception.

To minimize the energy consumption, the modem remains in sleeping mode when idle; when there is no reception or transmission the power level is kept at the minimum level.

SATELLINE-M3-TR1

SATELLINE-M3-TR1 radio module is available either without housing (facilitating easy integration into a host device) or inside of an aluminium housing. It has all the same functions than the SATELLINE-EASy variant.

Technical Specifications
SATELLINE-EASy (For Indian licence free channels 865-867) complies with the EN 300 113-2.

	SATELLINE-EASy 865–867	SATELLINE-M3-TR1 865-867
Frequency	865..867 MHz	
Channel Width	25 kHz	
Tuning Range	2 MHz	
Adjacent Channel Power	< -64 dBc	
Sensitivity BER < 10E-3 (FEC ON)	-111 dBm	
Adjacent Channel Selectivity (FEC ON)	> 52 dB	
Data Speed of Radio Interface	19200 bps (25 kHz channel)	
Power Consumption Save Modes	< 1.2 W (Receive) < 7 W (Transmit 1 W) Sleep: 0.12 W / DTR: 10 mW	
Modulation	4FSK	
Operating Voltage	+6 ... +30 Vdc	
Carrier Power	10...1000 mW	
Frequency Error Tolerance	< 2.5 kHz	
Spurious Emission	< -57dBm (RX/TX)	

	GENERAL	
Blocking (FEC ON)	> 86 dB	
Selectivity at ±50 kHz	> 67 dB	
Type of Emission	F1D	
Communication Mode	Half-Duplex	
Carrier Power Stability	<± 1.5 dB	
Spurious Radiation	< 2 nW	
Intermodulation Attenuation	> 60 dB	
Electrical Interface	Port1 fixed: RS-232 Port2 options: LVTTL, TTL or RS-232 / 422 (Port2 RS-232 / 422 is programmable)	
Interface Connector	D15 female	D15 female, 26-pin male strip, 26-pin female socket
Data Speed of Serial Interface	300 – 38400 bps	
Data format	Asynchronous data	
Temperature range	-25 °C ... +55 °C (tests acc. to ETSI standards) -40 °C ... +75 °C (absolute minimum / maximum) -40 °C ... +85 °C (storage)	
Antenna Connector	TNC, 50 ohm, female	TNC, SMA, MCX, MMCX
Construction	Aluminium housing	Aluminium or without housing
Size H x W x D / Weight	139 x 67 x 29 mm / 250 g	88 x 49 x 9 mm / 50 g (without housing)

Values are subject to change without notice.