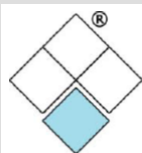# SATELLINE-EASy

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.

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. SATEL radio modems are type-approved in over 50 countries.

SATEL 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 re-peater.

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

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SATEL

Mission-Critical Connectivity

SATELLINE-EASy

- SATELLINE-EASy has two operating voltage levels to choose and low power consumption.
- The channel spacings 12.5, 20 and 25 kHz are software-selectable and the output power of 1W enables long connection distances.
- It has a wide 90 MHz / 70 MHz tuning range and the operation frequency can be selected within the ranges 330...420 MHz and 403...473 MHz.
- SATELLINE-EASy complies with the EN 300 113, EN 301 489-1, -5, EN 60950-1 and FCC Part 90 specifications.
- SATELLINE-EASy is also available as an IP67 product with 35W output power. You can find more information about the product in the SATELLINE-EASy Pro.

SATELLINE-EASy 869

- SATELLINE-EASy 869 is ready to use on the Pan-European licence free channels with default settings. It is allocated for narrowband telemetry, alarm and data transfer applications.
- SATELLINE-EASy 869 complies the EN 300 220-1, -2, EN 301 489-1, -3 and EN 60950-1.

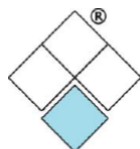|	SATELLINE-EASy	SATELLINE-EASy 869
Frequency	330...420 MHz / 403 ... 473 MHz	869.400 ... 869.650 MHz
Channel Width	12.5 kHz / 20 kHz / 25 kHz (Software selectable)	25 kHz
Tuning Range	90 MHz / 70 MHz	0.25 MHz
Adjacent Channel Power	< -60 dBc	< -64 dBc
Sensitivity BER < 10E-3 (FEC ON)	-114 dBm @ 12.5 kHz -111 dBm @ 25 kHz	-111 dBm
Adjacent Channel Selectivity (FEC ON)	>47 dB @ 12.5 kHz >52 dB @ 25 kHz	>52 dB
Data Speed of Radio Interface	19200 bps (25 kHz channel) 9600 bps (12.5 / 20 kHz channel)	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	<1.2 W (Receive) <3.8 W (Transmit 0.5 W) Sleep: 0.12 W / DTR: 10 mW
Modulation	4FSK, GMSK	4FSK
Operating Voltage	2 options: +3 ... +9 Vdc or +6 ... +30 Vdc	+6 ... +30 Vdc
Carrier Power	100, 200, 500, 1000 mW	10, 20, 50,100, 200, 500 mW
Frequency Error Tolerance	< 1 kHz	< 2.5 kHz
Spurious Emission	< -100 dBm (RX), < -80 dBm on 3rd harmonics @ 1215 - 1240 MHz (TX)	< -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
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
Construction	Aluminium housing
Size H x W x D / Weight	139 x 67 x 29 mm / 250 g

Values are subject to change without notice.

SATELLINE-EASy radio modems are also available as radio modules (Size: 88 x 49 x 9 mm / 50 g). You can find more information about SATELLINE-M3-TR1 and SATELLINE-M3-TR1 869 in the module brochure.

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