SATELLINE®-EASy

Wireless World – Local Solution

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 a LCD and push buttons for facilitating the configuring of the radio modem.

Available as:

VHF
▸ **UHF**
▸ **Licence free**
NMS
IP67

Product type:

▸ **Classic**
Smart
OEM

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®

SATELLINE-EASy

SATELLINE-EASy has two operating voltage levels to choose from. It is compatible with the SATELLINE-3AS radio modem family.

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 70 MHz tuning range and the operation frequency can be selected within the range 403...473 MHz.

SATELLINE-EASy is also available as IP67 product with 35W output power. You can find more information about the product in the SATELLINE-EASy Pro brochure.

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.

Each radio modem of the SATELLINE-EASy 869 network can be used as a repeater. The Message Routing function facilitates easy setup of even a large network with minimum investment in equipment.

Channel changes can be done using the radio modem's keypad and LCD or with a PC-software. The Message Routing function facilitates fast and easy setup of even a large network.

SATELLINE-EASy radio modems are also available as radio modules. You can find more information about SATELLINE-M3-TR1 and SATELLINE-M3-TR1 869 in the module brochure.

Technical Specifications

The equipment complies with the EN 300 220-2, EN 301 489-1&3 and EN 60950-1 specifications.

	SATELLINE-EASy	SATELLINE-EASy 869
Frequency Range	403 ... 473 MHz	869.400 ... 869.650 MHz
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz (Programmable)	25 kHz
Tuning Range	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 Stability	< 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
Frequency Stability	<1 kHz
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

Module	SATELLINE-M3-TR1 and SATELLINE-M3-TR1 869
Size	88 x 49 x 9 mm / 50 g

Values are subject to change without notice.

Distributor:

Sartelco Sistemi srl
via Torri Bianche 1
20871 Vimercate (MB) - Italy
sistemi@sartelco.it
www.sartelco.it

Manufacturer:

SATEL®

Meriniitynkatu 17, P.O. Box 142,
FI-24101 Salo, FINLAND
Tel. +358 2 777 7800
info@satel.com   www.satel.com