

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, sub-station 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.



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: LVTTTL, 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 |

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

Values are subject to change without notice.

Distributor:

Manufacturer:



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