

# SATEL-EASy+



SATEL-EASy+ is a new product family from SATEL. SATEL-EASy+ has improved LCD display to enable easy configuration, improved MCU capacity and variable physical interfaces available.

In addition to ordinary communication functions, SATEL-EASy+ offers configuration through radio, efficient diagnostics tools and accumulation of operation statistics data.

First model of SATEL-EASy+ uses 400 MHz frequency band and it is compatible with many SATEL radios, including SATEL-LINE-3AS NMS product family.

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 repeater.

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 networks comprising hundreds of modems. Even for expanded networks, only one operating frequency is required.

# SATEL

**Mission-Critical Connectivity**

Read more: [www.satel.com](http://www.satel.com)

# SATEL-EASy+

SATEL-EASy+ is a new radio modem family with modern technology. It offers improved LCD and more memory, several interfaces are available from standard serial to USB. In addition, it has several ways to configure the radios and monitor the quality of the radio network. SATEL-EASy+ is compatible with SATELLINE-EASy and -M3-TR4 based radios as well as with SATELLINE-3AS NMS modems.

The following software are supported by SATEL-EASy+:

- SaTerm (terminal SW for SL commands or data transmit/reception)
- SATEL Configuration Manager (Configuration)
- NETCO NMS (Configuration and monitoring)
- NETCO Mobile (Configuration over BT\*)
- SATEL NMS PC (Configuration and monitoring)

First product variant of SATEL-EASy+ family is for UHF frequencies 403 - 473 MHz with 1 W output power, other frequency and power variants will follow soonest. Ask more from SATEL.

	SATEL-EASy+
Frequency range	403 ... 473 MHz
Tuning range	70 MHz
Channel spacing	12.5 kHz / 25 kHz 20 kHz *) (uses 12.5 kHz channel width)
Modulation	4FSK, 8FSK, 16FSK GMSK *)
Sensitivity BER < 10E-3 (FEC ON)	-116 dBm @ 12.5 kHz (4FSK) / -112 dBm @ 25 kHz (4FSK) -106 dBm @ 25 kHz (16FSK)
Data speed of radio interface	9600 bps @ 12.5 kHz / 19200 bps @ 25 kHz (4FSK, FEC OFF) 7200 bps @ 12.5 kHz / 14400 bps @ 25 kHz (4FSK, FEC ON) 14400 bps @ 12.5 kHz / 28800 bps @ 25 kHz (8FSK, FEC OFF) 9600 bps @ 12.5 kHz / 19200 bps @ 25 kHz (8FSK, FEC ON) 14400 bps @ 12.5 kHz / 28800 bps @ 25 kHz (16FSK, FEC ON)
Carrier power	0.1 ... 1 W
Power consumption	< 1.4 W (Receive) < 6.0 W (Transmit 1 W) < 0.05 W (Standby)
<b>GENERAL</b>	
Communication mode	Half-Duplex
Type of emission	F1D
Electrical interface	RS-232, -422, -485 (default) USB, ETH, BT (optional variant*)
Interface connector	D15 (default) RJ45, USB, IO's (optional variant*)
Data speed of serial interface	1200 - 115200 bps
Data format	Asynchronous data
Operating temperature	-20 ... +55 °C (Complies with standards) -30 ... +70 °C ( Functional ) -40 ... +85 °C ( Storage )
Antenna connector	TNC, 50 ohm, female
Material	Aluminium
Size H x W x D / Weight	138 mm x 67 mm x 29 mm / < 350 g

Values are subject to change without a notice.  
\*) Ask availability from SATEL.

## SATEL Oy

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## HW

- New generation mechanics
- Operating voltage +6...30 VDC
- Improved LCD Display
- Improved MCU capacity
- Variable physical interfaces (D15, RJ45<sup>1</sup>, USB<sup>1</sup>, IO's<sup>1</sup>)

## FW

- NMS Protocol Compatibility (With routing, diagnostics and packet filters)
- ETH & TCP/IP Connectivity<sup>1</sup>)
- BT/BLE Connectivity<sup>1</sup>)
- DRM Feature support (IP networking, Cyber-Security)
- FW Over-The-Air Update<sup>1</sup>)

## SW / DM

- Legacy support for SATEL NMS PC Software
- NETCO NMS compatibility (Configuration + Monitoring)
- NETCO Mobile compatibility<sup>1</sup>)



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