SATEL® Compact-Proof

Wireless World – Local Solution

SATEL Compact-Proof

IP67 Radio Modem

SATEL

SATEL Compact-Proof is a versatile data radio modem with rechargeable battery. It is based on SATELLINE-EASy and provides a compact and flexible solution for a wide range of applications. SATEL Compact-Proof is available on three different frequency variants: 403...473 MHz, 869.4125...869.6375 MHz and 865...867 MHz. This portable radio modem has easy user interface with display. IP67 classification guarantees durability.

	Available as:		
	VHF		
	► UHF		
	► Licence	e 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



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SATEL Compact-Proof

SATEL Compact-Proof is IP67 classified product that is based on SATELLINE-EASy. It is equipped with rechargeable battery that can be easily replaced if necessary.

The lithium-ion battery provides a longlasting performance and plenty of operating hours. The operating time in +25°C is more than 15 h (50% duty cycle @ 1 W).

There are three attachment options available. You can select a backplate that can be attached withs screws to any surface, an aluminium hook or belt loops.

403...473 MHz variant

This variant has a wide 70 MHz tuning range and the operation frequency can be selected within the range 403...473 MHz. 12.5, 20 and 25 kHz channel widths are softwareselectable.

869.4125...869.6375 MHz variant

This variant uses the Pan-European licence free 869 MHz frequency band.Modem has 10 separate channels and maximum 0.5 W output power.

865...867 MHz variant

This variant is ready to use on the Indian licence free channels 865...867 MHz. The modem has 2 MHz tuning range and 1 W output power.

Technical Specifications

The 403...473 MHz variant complies with the EN 300 113-2, EN 301 489-1, -5 and EN 60950-1 specifications.

The 869.4125...869.6375 MHz variant complies with the EN 300 221-1, -2, EN 301 489-1, -3 and EN 60950-1.

The 867...867 MHz variant complies with the EN 300 113-1, -2.

	SATEL Compact-Proof		
	403 473 MHz	12.5 / 20 / 25 kHz	
requency Range / Channel Width	869.4125 869.6375 MHz	25 kHz	
	865 867 MHz	25 kHz	
uning Range	403 473 MHz	70 MHz	
	869.4125 869.6375 MHz	10 channels	
	865 867 MHz	2 MHz	
Sensitivity BER < 10E-3 (FEC ON)	-114 dBm @ 12.5 kHz -111 dBm @ 25 kHz		
Adjacent Channel Selectivity (FEC ON)	> 47 dB @ 12.5 kHz > 52 dB @ 25 kHz		
Data Speed of Radio Interface	19200 bps (25 kHz channel), 9600 bps (12.5 / 20 kHz channel)		
Power consumption Save Modes	1.2 W (Receive) 7 W (Transmit 1 W), 3.8 W (Transmit 0.5 W) Sleep: 0.12 W / DTR: 10 mW		
Max. Time of Operation	+ 60 °C (1 W) + 60°C (50% TX/RX ratio@1 W) - 20 °C (1 W) - 20 °C (50 % TX/RX ratio@1 W) - 20 °C RX	13.8 h 22.2 h 10.5 h 16.9 h 44 h	
Battery Capacity and Type	7.2 V, 8700 mAh Li-Ion		
Charging Time (empty to full)	5.5 h @ + 25 °C		
Charging Voltage / Current	+9 + 16 Vdc / 1.6 A		
Power Connector	4-pin ODU MINI-snap size 1		
Modulation	4FSK, GMSK		
	403 473 MHz	0.1 1 W	
Carrier Power	869.4125 869.6375 MHz	0.01 0.5 W	
	865 867 MHz	0.01 1 W	
Frequency Stability	< 1 kHz		
Spurious Emission	< -100 dBm (RX), < -80 dBm on 3rd harmonics @ 1215 - 1240 MHz (TX)		
GENERAL			

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Communication Mode	Half-Duplex		
Type of Emission	FID		
Electrical Interface	RS-232		
Interface Connector	Waterproof IP67, 8-pin ODU		
Data Speed of Serial Inter- face	300 – 38400 bps		
Data format	Asynchronous data		
Operating temperature	-25 +55 °C (Complies with standards) -30 +65 °C (Functional) -40 +75 °C (Absolute min./max.) -40 +85 °C (Storage)		
Charging temperature	+5 °C +45 °C		
Antenna Connector	TNC, 50 ohm, female		
Material	Aluminium		
Ingress Protection	67		
Size H x W x D / Weight	186.5 mm x 83.8 mm x 50 mm/850 g		

Distributor:

