SATELLINE®-2ASc

Wireless World - Local Solution

The earlier generation SATELLINE products 1AS and 2AS have been largely replaced by a fully compatible radio modem, the SATELLINE-2ASc. In comparison to its predecessors, it offers higher carrier power and better noise performance. The SATELLINE-2ASc is the first SATEL product in which the operating frequency can be set by the user.

Like the 1AS and 2AS, the SATELLINE-2ASc can be used for diverse local area applications involving point-to-point connections as well as networks operated in the point-to-multipoint mode.

VHF with NMS

UHF with NMS

UHF

Licence Free

IP67

OEM

With SATEL radio modems, setting up a local data transfer network is quick and cost effective. Your 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. For the latest information, please visit our website www.satel.com.

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.

All SATELLINE radio data modems fulfil RoHS requirements (EU directives 2002/95/EC and 2002/96/EU) as of 1 July 2006.

SATEL®

Local area transfer of data and alarms

The operating frequency is selectable within +/-1 MHz from the allocated basic frequency, and can be set by the user with the radio modem in the Programming Mode. The radio modem is compatible with the RS-232 interface, through which it can be connected to most data terminals and systems, for initial configuration or change of setups.

The SATELLINE-2ASc is primarily intended as a replacement for the earlier generation of SATELLINE-1AS / 2AS radio modems, as well as for the extension or updating of existing networks. In comparison with its predecessors, the higher carrier power of SATELLINE-2ASc facilitates longer connection distances. The increased number of radio channels and free selection of the operating frequency enhance the flexibility of a radio modem system.

Thanks to the programmability of the radio modem, the rest of the operating parameters of the SATEL-LINE-2ASc are easily initialised or changed.

Expert's help is always at hand

With over 20 years of experience, SATEL Oy has grown into one of the leading radio modem manufacturers in the world. As a result of our persistent and innovative work in both product design and international marketing, we now offer an extremely large selection of radio modems, and operate through an extensive and skilled distributor network all over the world.

SATEL Oy is an ISO 9001:2000 certified company. The quality of our operations and products is kept as flawless and at as high level as possible.

We have also accumulated a considerable amount of know-how in different radio modem applications. So, whatever your application is, do not hesitate to ask for our expert help whenever you need it. SATELLINE radio modems have been used, for example, at airports, waterworks and electricity plants for various monitoring and control applications, as well as to set up location data-based fleet management systems in cities.

SATEL Oy has prepared an extensive set of Application Notes describing the different ways of utilising SATEL radio modems in various applications. For further information about our products and their applications, please visit our home page www.satel.com or contact your local dealer.

Manufactured:

SATEL®

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Technical specifications SATELLINE-2ASc

The equipment complies with the EN 300 220-1, ETS 300 683 and IEC 60950 specifications.

TRANSCEIVER	
Frequency Range	380...470 MHz
Channel Spacing	20 kHz / 25 kHz
Number of Channels	100 / 80
Frequency Stability	< ± 1.5 kHz
Type of Emission	F1D
Communication Mode	Half-Duplex
Method of Modulation	FSK
TRANSMITTER	
Carrier Power	10 mW...1 W / 50 ohm
Carrier Power Stability	+ 2 dB / - 3 dB
Adjacent Channel Power	< 200 nW
Spurious Radiation	according to EN 300 220-1
RECEIVER	
Sensitivity	-110...-115 dBm (BER < 10 E-3) *Note
Co-channel rejection	> - 8 dB
Adjacent channel selectivity	> 70 dB
Intermodulation attenuation	> 65 dB
Spurious radiation	< 2 nW
DATA MODEM	
Interface	RS-232
Interface Connector	D15, female
Data speed	300 - 4800 bps (25 kHz channel)
Data speed	300 - 2400 bps (20 kHz channel)
Modulating Signal	Manchester coded NRZ
Data formats	Asynchronous data
	Character length 10 or 11 bits
GENERAL	
Operating voltage	+ 9 ...+ 30 Vdc
Power consumption	2.5 VA typical (Receive)
	6.6 VA typical (Transmit)
	0.05 VA typical (when DTR is "0")
Temperature range - Operating	-25 °C...+55 °C (tests acc. to ETSI standards)
	-40 °C ...+75 °C (absolute minimum / maximum)
- Storage	-40 °C ... +85 °C
Antenna Connector	TNC, 50 ohm, female
Construction	Aluminium enclosure
Size H x W x D	137 x 67 x 29 mm
Installation plate	130 x 63 x 1 mm
Weight	250 g

Values are subject to change without notice.
*Note: Depending on data speed.

Distributor: