SATELLINE®-3AS(d) Epic NMS

Wireless World – Local Solution

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SATELLINE-3ASd Epic NMS

SATEL

The SATELLINE-3AS Epic NMS exhibits a high power (10 W) transmitter and two receivers operated in a Diversity Reception mode. The Diversity Reception improves the reliability of the connection where there is a lot of signal fading caused by reflections. The high output power and the Diversity Reception make it possible to more than double the connection distances in comparison to ordinary SATELLINE-3AS NMS radio modems with 1 W output power.

The remotely manageable SATELLINE-3AS Epic NMS offers configuration through radio, efficient diagnostics tools and accumulation of operation statistics data, in addition to ordinary communication functions.

> The management and surveillance of a network of 3AS Epic NMS radio modems is effected through the Master Station connected by a serial interface to a PC with dedicated Network Management software.

> > 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 typeapproved 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, realtime 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.

VHF with NMS
UHF with NMS
UHF
Licence Free
IP67
OEM

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.



Functionality and transmission power

Diversity Reception

Fading of a radio signal occurs when a signal reflected from several objects is caught by the antenna of a radio modem and reaches the receiver at different times. The signals at the receiving antenna are in different phases so in the worst case two equally strong signals being in opposite phases cancel each other out causing signal fading. The SATELLINE-3AS Epic NMS is equipped with two separate receivers. Signal fading is reduced by tuning the two antennas properly apart from each other.

Dependable long-range data transfer

The 3AS Epic NMS radio modems monitor, on a continuous basis, the condition of the radio connection, in particular the strength of the received signal (RSSI) and the voltage level of the power source as well as the inside temperature of the modem. The information is transmitted to the SATEL NMS PC software, where it is stored and displayed as logs and trend data.

In the SATELLINE-3AS Epic NMS the error rate is minimised by means of advance checking and correction of the data packets. In Forward Error Correction (FEC), the data packets are split in several blocks. The radio modem adds correction information inside the blocks during transmission.

A SATELLINE-3AS Epic NMS network consists of remotely adjustable radio modems operated in a polling mode, and controlled through the Master Station by dedicated SATEL NMS PC software. The SATEL NMS PC software provides the user with a powerful graphical tool for designing a radio network, which ensures that each NMS radio modem receives and transfers only the messages intended for it, and that each message is appropriately routed, using repeaters where necessary.

The user data and NMS information are transferred seamlessly together. The Network Management System is compatible with most user protocols, making the NMS network suitable for a wide range of applications.

Expert's help 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 knowhow 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:



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Technical Specifications SATELLINE-3AS(d) Epic NMS

The equipment complies with the EN 300 113-1, -2, EN 301 489-1, -5, IEC 60950 and FCC CFR47 section 90 specifications.

TRANSCEIVER Communication Mode TRANSMITTER according to EN 300 113-1 RECEIVER > -12 dB > 65 dBDATA MODEM + 11.8 ...+ 30 Vdc Power consumption (average) 0.1 W typical (in Standby mode) Construction 154 x 123 x 29 mm without cooling part Size H x W x D

Values are subject to change without notice. * Note1: The Dual Band version operates on two separate 2 MHz frequency band. *Note 2: Depending on Receiver settings.

Distributor:

