

SATEL Oy, established in 1986, is a Finnish electronics and telecommunications company that specialises in the design, manufacturing and international marketing of radio modems for data communication and alarm transfer. They are one of the leading suppliers in the world, operating worldwide through a vast distribution network. Every SATEL radio modem is designed and manufactured in Finland and fulfills the RoHS requirements.

One of the cornerstones of SATEL's success is the experienced personnel, many of whom have devoted a major part of their working lives to wireless data communications technology. Their product development team, in particular, is known for its innovativeness and efficiency.



Smart Radio Modems



SATELLAR-2DSd

SATELLAR is a new generation digital radio modem system that consists of several different units:

- Central unit (CU)
- Radio unit (RU)

SATELLAR enables the building of an independent, reliable, real-time radio data communication system that meets the specific needs of the customer.

Typically, a central unit together with a radio unit is used in a network as a master station or in locations where Ethernet connectivity is needed. For radio router stations, the central unit is not necessarily required. In these cases, the radio unit can be used alone. This is possible because of the modular structure of the product.

Consequently, SATEL possesses the world's widest selection of products in its field. Through impeccable quality control and vigilant product development, They have been able to establish a firm position in this niche market.

SATELLAR-2DSd includes a radio unit and a central unit, which enables IP connectivity. SATELLAR-2DS can operate either as a transparent radio link, essentially replacing a wire, for classic RS-232, RS-485 or RS-422 based protocols, or can operate as a wireless router in an IP-based network.

SATELLAR-2DSd is equipped with a color display and a keypad, which facilitates programming of the device.

Data security is typically a concern when using radio communication. In SATELLAR, information security was a design priority; 128 bit encryption on the air interface and the use of built in firewall in the central unit ensures privacy both in the radio network and in the wired IP network.

Using SATELLAR-2DSd many network topologies are possible, from point-to-point link to a nationwide chain with multiple branches.

Technical Specifications

Frequency range: 280 ... 520 MHz

Tuning range: 45 MHz

Channel spacing: 12.5 and 25 kHz selectable

Sensitivity/Carrier power: -116 dBm / 1 W

Interface: Ethernet, RS-232, 422, 485

Data speed: 38400 bps / 57600 bps

Operating voltage: +9 ... +30 Vdc

Power consumption: 5W / 8.5W@0.1W, 10.5W@1W

Size/Weight: 130 x 46 x 76.5 mm / 560 g



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