Supreme reliability and security

The heart of SATEL XPRS

IP RADIO ROUTER

SATEL xprs

Mission-Critical Connectivity

IP RADIO ROUTER

SATEL XPRS IP radio router, the heart of the SATEL XPRS communications solution, is an excellent choice for data transfer in mission-critical applications requiring long range, security and stability of the private radio network. It provides high available connectivity, with reliable radio technology and switchover functionality. Redundant routing with other, adjacent, technologies is also provided. In addition to IP communications, support for serial components is ensured by serial modes of operation as well as protocol conversions. With its advanced coding technologies, excellent sensitivity and performance values, the SATEL XPRS IP radio router is the market leader in the spectral efficiency.

MISSION-CRITICAL CONNECTIVITY REQUIREMENTS

High available, long range connectivity

Easy and error free deployment

Integrated serial and IP networking support and conversions

Protect the legacy investments

Combine with adjacent technologies:

Automated switch overs with redundant routing protocols

Avoid costs of endangered cyber security

EASY CONFIGURATION

SATEL NETCO DESIGN, network design, configuration and management software

Web browser based user interface

SNMP for remote management

Over-the-air remote management and firmware updating

Firmware and configuration uploads via USB

Error free configuration and automated parameter calculation

Up to 80 % savings by reduced deployment time

Avoid human configuration errors

CYBER SECURITY

Models with AES-128 / -256 encyption support

Built-in firewall

User authentication

SATEL cyber security auditing procedur

Data and management network separation

Secure browser access

Long range	VLAN	Unicast Broadcast	Bridge mode	Automatic modulation selection	Redundant routing	SNMP monitoring	Radio data up to 121 kbps
Protocol conversions	IEC-104/101, DNP3, Modbus TCP/RTU	NETCO	Firewall	0.1-5 W TX-power	Interoperability	Serial over IP	Cyber security	UHF

SATELLAR XT 5R
RADIO UNIT ONLY

SATELLAR XT 5RC

SATELLAR XT 5RC
w. DISPLAY

Name	XT 5R	XT 5RC
Model / Type identification	SATELLAR RU-Q / TA-26	SATELLAR RU-Q / TA-26
SATEL order code: -with encryption support -w/o encryption support -with LCD + encr.support -with LCD, w/o encr.support	YF0200 YF0205 - -	YF0210 YF0215 YF0220 YF0225
Frequency MHz	400-445	
Tuning range	45 MHz	
Modulations	2, 4, 8, 16, 32, 64 QAM	
Channel width	12.5 / 25 kHz	
Data speed radio (max.)	60.5 kbps @ 12.5 kHz (64QAM) 121 kbps @ 25 kHz (64QAM) Max.coded	

RX sensitivity (BER 10E-3)	Air speed	Channel width	Modulation	Sensitivity (10E-3)
	121 kbps	25 kHz	64QAM	-101 dBm
	60.5 kbps	12.5 kHz	64QAM	-104 dBm
	80.6 kbps	25 kHz	16QAM	-108 dBm
	40.3 kbps	12.5 kHz	16QAM	-110 dBm
	20.2 kbps	25 kHz	2QAM	-117 dBm
	10.1 kbps	12.5 kHz	2QAM	-118 dBm

	XT 5R	XT 5RC
TX power (nominal)	37 dBm (5 W) mean: average 30 dBm (1 W), max 32 dBm (1.5 W) PEP: average 37 dBm (5 W), max 38 dBm (6.6 W)	
Interface	RS-232, -422 / -485	RS-232, -422 / -485, USB, Ethernet
Operating voltage	+ 12.5 Vdc ... +25 Vdc (-15% / +20%)	
Temperature ranges	-25 ...+55 °C complies with the radio standards -30 ...+70 °C functional -40 ... +85 °C storage	
Mounting	DIN rail (side or back) Direct on flat surface	
Standards compliance*)		
Radio	EN 300 113	
EMC	EN 301 489-1, -5	
Safety	IEC 62368-1	
Power consumption without display TX / RX with display TX / RX	14.4 / 3.8 W -	15.8 / 5.2 W 16.4 / 5.8 W
Size H x W x D / Weight	130 x 55.5 x 76.5 mm / 680 g	130 x 77.2 x 76.5 mm / 940 g

PRBS (Pseudorandom Binary Sequence), measured with 30 V add 2.5 W for connected USB devices
*) Contact SATEL for more information

SATEL is one of the world's leading experts and innovators of radio modems for wireless data communication. Our solutions are used in wide range of industrial applications. We are known for our high quality, expertise, service and support.

Contact us

You can contact us directly or get in touch with your local distributor.

SATEL, Meriniitynkatu 17 P.O.Box 142,
FI-24101 Salo, FINLAND
Tel. +358 2 777 7800
info@satel.com

05/2023

Visit: www.satel.com

SATEL