



IP RADIO ROUTER

SATEL XPRS Optimum IP radio router provides the cost-efficient core

- for the SATEL XPRS mission-critical connectivity solution. It is an
- excellent choice for data transfer in applications requiring long range,
- security and stability of the private radio network. It provides high available connectivity, with reliable radio technology, allowing savings in infrastructure costs. In addition to IP communications, support for serial connectivity is included as well. With its advanced coding technologies, excellent sensitivity and performance values, the SATEL XPRS Optimum 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

Serial and IP networking support

Enhanced cyber security



EASY CONFIGURATION

NETCO centralized configuration software

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



CYBER SECURITY

Data encryption

User authentication

SATEL cyber security auditing procedure

Confidentiality

Integrity

High availability

Spectral efficient

Long range

Cyber secure

NETCO

Remote configuration

Cost-effective

UHF

	TECHN	IICAL SPECIFICA	ATIONS		
Model / Type identification		SATELLAR RU-Q / TA-26			
SATEL order code	YF0410 with encryption support YF0415 without encryption support				
Frequency MHz	360-405 400-445 (Others, ask for availability)				
Tuning range		45 MHz			
Channel width		12.5 kHz / 25 kHz (programmable)			
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)			
Modulations		2, 4, 8, 16 QAM			
RX sensitivity (BER 10E-6)	Air speed	Channel width	Modulation	Sensitivity (10E-6)	
	40.3 kbps	25 kHz	4QAM	-111 dBm	
	20.2 kbps	12.5 kHz	4QAM	-113 dBm	
	80.6 kbps	25 kHz	16QAM	-105 dBm	
	40.3 kbps	12.5 kHz	16QAM	-106 dBm	
Interface		RS-232, -422 / -485, USB, Ethernet			
Operating voltage		+ 10.6 Vdc +30 Vdc			
Temperature ranges	-25+55 °C complies with the radio standards -30+70 °C functional -40 +85 °C storage				
Power consumption TX / RX		<20 W / 5.2 W			
Mounting parts (Order separately)	DIN rail (side or back) Direct on flat surface				
Standards compliance					
Radio		RED 2014/53/EU			
EMC		EN 301 489-1, -5			
Safety			EN 60950-1		

Values are subject to change without a notice.

FEATURES					
Order separately	Explanation				
Proxy ARP	IP routing to remote networks in the same LAN or IP address range				
NMS to Modbus	Diagnostics with Modbus protocol				
Application routing	DNP3 IP to serial, Modbus TCP to Modbus RTU, Serial IP, UDP/TCP Proxy, Sinaut S7, custom protocol etc				
IEC104/IEC101 conversion	Protocol master is using IEC 60870-5-104 RTUs operate on IEC 60870-5-101				
Redundant routing	IP routing table enhancement: Automatic route selection VRRP and other related features for high-availability				
Adaptive modulation	Radio interface automatically adapts to SNR level				
Upgrade 16QAM to 32QAM	To achieve higher radio bit rate, upto 101 kbps				
Upgrade 16QAM to 64QAM	To achieve higher radio bit rate, upto 121 kbps				
Upgrade 32QAM to 64QAM	To achieve higher radio bit rate, upto 121 kbps				
	Proxy ARP NMS to Modbus Application routing IEC104/IEC101 conversion Redundant routing Adaptive modulation Upgrade 16QAM to 32QAM Upgrade 16QAM to 64QAM				

SATEL is one of the world's leading experts and innovators in independent radio networking technology. 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.

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