

## **SATEL-TR300**

SATEL-TR300 is a UHF data transceiver module in a lightweight single board structure. It is designed to be integrated into a host device or into the customer's own housing .

The frequency band 320 ... 380 MHz makes SATEL-TR300 to be an excellent choice for GNSS industry in Asia and utility business in the Middle East.

- 60 MHz tuning range (320...380 MHz) and selectable channel width (6.25, 12.5, 20 and 25 kHz)
- Extended operating voltage range
- Moderate power consumption
- AES128 support as default, AES256 as an order option
- Polling Protocol as an order option

## Compatible and customizable

SATEL-TR300 is compatible with widely used SATEL radios, such as SATEL-EASy+ and SATELLINE-EASy.

SATEL GO radio modules match all the needs of OEM customers. Please contact us or our nearest distributor for various possibilities to create a customized solution for you.

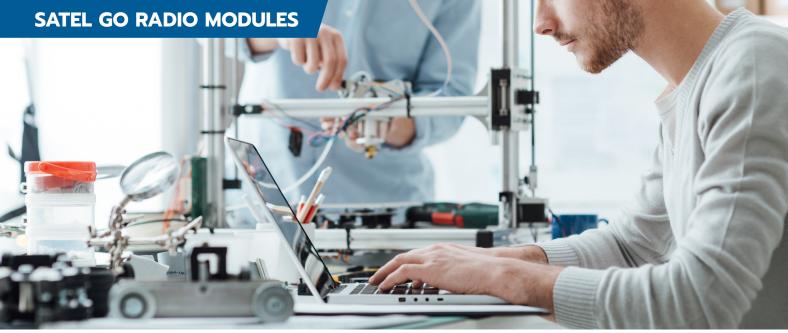


**Mission-Critical Connectivity** 

## Read more: www.satel.com

SATEL – the world's leading expert and innovator 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.

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



## **Easy installation** and configuration

- SATEL-TR300 is supplied without a housing in PCB format with RF-shielding,
- facilitating installation into the customer's own housing or into a host device, for example to transfer GNSS correction data in a land surveying rover or RTK base

The radio module configuration can be done with the SATEL SL-commands or SATEL Configuration Manager software.

SATEL-TR300	
Frequency / Tuning range	320 380 MHz / 60 MHz
Channel width	6.25 / 12.5 / 20 / 25 kHz (software selectable)
Frequency control	Synthesized 6.25 kHz tuning resolution (10 kHz @ 20 kHz spacing)
Modulation	4FSK, 8FSK, 16FSK (GMSK*)
Carrier power	0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1 W programmable

RADIO INTERFACE CHARACTERISTICS					
Error correction	Channel width	Data speed of radio interface			
		Radio compatibility SATEL-4FSK	Radio compatibility SATEL-8FSK	Radio compatibility SATEL-16FSK	
FEC OFF	6.25 kHz	4800 bps	7200 bps	**)	
	12.5 kHz	9600 bps	14400 bps	**)	
	25 kHz	19200 bps	28800 bps	**)	
FEC ON	6.25 kHz	3600 bps	4800 bps	7200 bps	
	12.5 kHz	7200 bps	9600 bps	14400 bps	
	25 kHz	14400 bps	19200 bps	28800 bps	
Sensitivity (typically) BER < 10 E-2	-113 dBm				

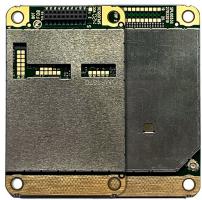
- \*) Ask availability
- \*\*) FEC always ON

SATEL-TR300 complies with the following international standards: EN 300 113, EN 301 166, EN 301 489-1, -5, IEC 62368-1 and FCC Part 90

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



AdriNet d.o.o. Jaruščica 9a, 10 000 Zagreb Hrvatska / Croatia t.+385 1 888 68 84



GENERAL SPECIFICATIONS			
Input voltage	+3.8 Vdc +5.5 Vdc		
Power consumption, typical	0.9 W (RX) 6.4 W (TX 1 W) 0.5 W (Sleep)		
Temperature range	-20 °C +55 °C (complies with the standards) -30 °C +70 °C functional -40 °C +85 °C storage		
Antenna connector	HIROSE U.FL compatible type (Adapter cables available for TNC,SMA, MCX, MMCX etc.)		
Construction	PCB with RF-shielding		
Size H x W x D mm Weight	57 x 36 x 6.9 mm (w. screw fasteners) 20 g		
DATA MODEM			
Electrical interface	CMOS-UART		
Interface connector	1.27 mm pitch socket		
Data speed of serial interface	9600 115200 bps		
Air linterface encryption	AES128 default, AES256 as an order option		

Values are subject to change without a notice.

