

PROUHF400

Enclosure radiomodem series



* Radiomodem PROUHF400 is still under design. All the technical data can be updated during the design process.

Description

PROUHF400 is series of enclosure UHF radiomodems in range of 410-470 MHz.

PROUHF400 maximum output communication power is 2W and maximum data speed over the air is up to 19200 bps.

PROUHF400 is compatible with transmitting protocols TRIMTALK, TRIMMARK and Transparent-EOT.

PROUHF400 supports interfaces: RS232, RS485, USB, CAN, Bluetooth, WiFi.

PROUHF400 supports control through command and WEB-interfaces.

PROUHF400 has embedded light signal indication of the device and interfaces.

Common fields of use

One can be used for the applications that require wireless transfer of the correction data, such as RTK measurements, as well as wide functional monitoring of the oil and gas mines and hydro-graphic researches.

Common technical properties:

Radio

Frequency range	410-470 MHz
Operation mode	halfplex
Channel spacing	25 kHz, 12.5 kHz
Modulation type	GMSK, 4FSK
Frequency stability	$\leq \pm 1.0$ ppm

Electrical

Operational voltage	9-36 V
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Environmental properties

Operational temperature	-40°C to +60°C
Storage temperature	-40°C to +85°C
Ingress protection	IP67

UHF antenna

Antenna connector	TNC (female)
Impedance	50 Ohm

Physical properties

Dimensions	155 x 83 x 43 mm
Weight	500 g

Transmitter

High output power (2 W)	33 ± 1 dBm at 5 V
Low output power (0.5 W)	27 ± 1 dBm at 5 V
Power stability	± 1 dB
Harmonics	> 52 dB

Receiver

Sensitivity	-115 dBm, BER 10-3, 9600 bps
Co-channel rejection	> -12 dB
Adjacent Channel Selectivity	> 50 dB at 25 kHz

Interfaces

Wired	1 x RS232 1 x RS485 1 x USB 1 x CAN (Specification 2.0)
Wireless	Bluetooth 4.2 WiFi 802.11 b/g/n

External connectors

Data	30 pin connector which provides wired connection of power and interfaces
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