

PROUHF435

Enclosure radiomodem series
with high transmitting power



* Radiomodem PROUHF435 is still under design. All the technical data can be updated during the design process.

Description

PROUHF435 is series of enclosure UHF radiomodems in range of 410-470 MHz.

PROUHF435 maximum output communication power is 35W and maximum data speed over the air is up to 19200 bps.

PROUHF435 is compatible with transmitting protocols TRIMTALK, TRIMMARK and Transparent-EOT.

PROUHF435 supports interfaces: RS232, RS485, USB, CAN, Bluetooth, WiFi.

PROUHF435 supports control through command and WEB-interfaces.

PROUHF435 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	$\leq \pm 1.0\text{ppm}$

Transmitter

Output power	25 - 35 W
Power stability	± 1.5 dB
Harmonics	52 dB

Physical properties

Dimensions	155 x 83 x 64 mm
Bec	600 g

Receiver

Sensitivity	-115 dB, 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

Environmental properties

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

Electrical

Operation power	9-16 V
-----------------	--------

UHF antenna

Antenna connector	TNC (female)
Impedance	50 Ohm

External connectors

Data	30 pin connector which provides wired interfaces connection
Power	2 pin connector

