

## RADIO TRANSMISSION MODULE

## RADIO COMMUNICATION AND DATA EXCHANGE SYSTEMS

# RKL-8200



- Works in a self-organizing radio network
- Hopping operation mode capability
- Data transmission between different platforms (aircraft, vehicles, caterpillar vehicles, stationary objects)
- Software module definition with the possibility of easy implementation of new functions and waveforms
- Module configuration i.a. through internal http server
- Complies with Defence Norms/Directives i.a. NO-06-A101÷A108 and NO-06-A200
- The basic version complies with the environmental requirements according to the NO-06-A103 standards for the S.2.1-0-II-A devices group (turbo propeller aircraft, installation in a non hermetical central zone, away from the engine and propellers)

The RKL-8200 transmission module was designed and constructed to meet the needs for radio data transmission for training aircraft type ORLIK for a 30÷88MHz frequency band. Its functionality was adapted to customer's requirements.

The RKL-8200 transmission module ensures reliable communication at a tactical level (digital data transmission). It can be used as an element of mobile radio communication systems mounted on aircraft, vehicles and caterpillar vehicles. The transmission module is intended for use in ŁEBA systems (Polish Navy) and SRACASS (Maritime Search and Rescue Service).

The RKL-8200 transmission module is powered by 27V DC (voltage range from 23,7÷29,5V). The RKL-8200 transmission module parameters can be tailored to a specific order at any time to meet the individual requirements of the client.





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TECHNOLOGIES UNDER CONTROL



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### GENERAL

Frequency Range:	30÷88MHz
Power:	20W FM, PEP AM
Sensitivity:	107dBm (1μV)
Modes:	Hopping frequency MARLIN work at a fixed frequency (F3E modulation)
Impedance:	50 Ω /WFS < 3,5:1
Audio:	600 Ω
Control:	ARINC 429, LAN, RS-232
Power Supply:	23,7 – 29,5V

### ENVIRONMENTAL SPECIFICATION

Environmental Requirements:	According to N0-07-A103 standard
EMC Compatibility:	According to N0-06-A200 standard
Operating Temperature:	-40°C +55°C (short period work +70°C)
Storage Temperature:	-55°C +85°C

### DIMENSIONS

Dimensions in mm:	137×380×120
Weight in kg:	3,95kg
Colour:	black RAL9005