

## ARL - Radio Link

**ARL-1 air-to-land / land-to-air radio link** is intended for the transmission of picture and other digital data from patrol aircraft to a base station, mounted on a cross-country vehicle or a patrol boat.

It enables the transmission of control data from the base station to the aircraft.

The radio link is made up of two devices:

1. airborne radio module (SMR-1) installed in the aircraft
2. base radio module (RMB-1) installed in a landline stationary or mobile station



### **ARL-2 air-to-land / land-to-air radio link**

The ARL-2 is intended for the transmission of picture and other digital data from light aircraft (miniature UAV) to a base station. It enables the transmission of control data from the base station to the aircraft.

The radio link is made up of two devices:

1. airborne radio module (SMR-2), installed in the aircraft
2. base radio module (RMB-2) installed in a landline stationary or mobile station

# ARL - Radio Link

## System parameters

	<b>ARL-1</b>	<b>ARL-2</b>
■ operating frequency .....	4,4 ÷ 5,0 GHz (8 channels available)	
■ operating range .....	60 km	10 km
■ up-link (aircraft bound) transmission rate .....	9,6 kb/s	32 kb/s
■ down-link (base station bound) transmission rate .....	10 Mb/s	2 Mb/s
■ maximum SMR radiation .....	up to 50 W	up to 1 W
■ aircraft antenna .....	omnidirectional/directional	directional
■ BMR-1 antenna.....	directional with auto-tracking system	-----
■ power supply voltage .....	BMR-1 - 27V SMR-1 - 27V	BMR-2 - 27 V SMR-2 - 12 V
■ SMR power consumption .....	up to 200 W	up to 7 W
■ SMR weight .....	20 kg	200 g
■ interface type: .....		
- SMR interface: UP-link, Down-link .....	Ethernet 10/100 BT	RS-422*
- BMR interface: UP-link, Down-link .....	Ethernet 10/100 BT	RS-422*

\* synchronus, data and clock

