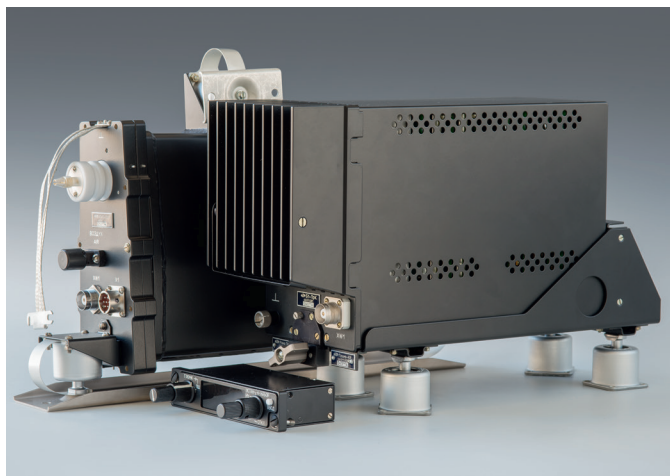


Prima-KV

Family of airborne HF radio sets

Prima-KV radio sets are intended for telephone and datalink communication on fixed HF range frequencies between aircrafts and ground communications centers. Prima-KV radios provide operation in the frequency range of 2.0000 to 29.9999 MHz with frequency spacing 100Hz.

There are different versions of Prima-KV – for civil aviation, as well as radio sets with adaptive communication.



Prima-KV basic version
(output power - 100 W)

Key features:

- Output power 100 W
- Low power consumption
- Small dimensions and weight
- Built-in test control system
- High reliability



Prima-KV with adaptive communication
(output power - 100/200 W)

Key features:

- Output power 100/200 W
- SDR
- Operation in ALE mode
- Built-in test control system
- High reliability
- Low power consumption
- Small dimensions and weight

Specifications

Parameter	Basic version	for civil aviation	with adaptive communication
Frequency range, MHz	2.0000 – 29.9999	2.0000 – 29.9999	2.0000 – 29.9999
Frequency spacing, Hz	100	100	100
Relative frequency error	5*10 ⁻⁷	5*10 ⁻⁷	5*10 ⁻⁷
Emission classes	J3E, H3E/A3E, R3E, F1B, G1B, J7D	J3E, H3E/A3E	J3E, H3E/A3E, R3E, F1B, G1B, J7D, G7D
Emission power (peak), W	100	100	200 or 100
Receiver sensitivity, µV	1 (J3E)	1 (J3E)	0.6 (J3E)
Quantity of preprogrammed channels	40	40	255
Cyclicity (Tx/Rx), min	1:3	1:3	Tx without limitation in adaptive communication
Data rate in emission classes, bit/s			
F1B, G1B	75,150,300,500	-	75,150,300,500
J7D	1200,2400	-	1200,2400
G7D	-	-	75 - 9600
Mean tuning time, s	2 (0, 1 from memory)	2 (0, 1 from memory)	2 (0, 1 from memory)
Power consumption (Tx/Rx), W, max	110/390	110/390	110/(550/390 - 200/100W)
Selective call receiving (SELCAL)	-	available	-
Interfaces:			
GOST 18977/RS-422/ RS-232, channels	2/2/1	2/2/1	2/2/1
Ethernet	-	-	2 channels
CAN	-	-	1 redundant
Weight, kg, max	11	11	13
Operating temperature, °C	-60 +60	-55 +60	-60 +60