

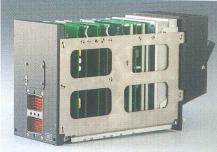




## Airborne HF radio

HF radio set is intended for telephone and data transmission communication on fixed HF range frequencies between aircrafts and ground communication units. This radio set can be installed at any type of the aircraft due to its different versions availability. The radio set doesn't require forced cooling.







## The radio set composition:

Radio set consists of:

- transceiver B1 PrK (B1A-PrK or B1B-PrK) unit, installed at PrK or B10A-PrK mount;
- antenna tuning unit is one of the units:
- B5A1-PrK (non hermetic, for capacitance antennas);
- B5A2-PrK (hermetic, for inductance antennas);
- B5B2-PrK (non hermetic, for inductance antennas).

The following control panels can be the component of the radio set:

- B7-PrK unit (with white highlight);
- B7B-PrK unit (with red highlight);
- B7G-PrK unit (with green highlight);
- B7D-PrK unit (with green highlight);

**PRIMECOM** 



## SPECIFICATIONS:

Parameter 2015 April 1985 April 1	
Freequency range, MHz	2,000 – 29.9999
Frequency spacing, Hz	100 °
Frequency relative accuracy	5*10 <sup>-7</sup>
Emission class	J3E, H3E/A3E, R3E, F1B, G1B, J7D
(for versions with ALE modes)	M-PSK, QAM with data rate
(101 VELSIONS WITH MEETHOUSS)	759600 bit/s
Emission power (peak), W	100
Receiver sensitivity, μV: (for versions with ALE mode), μV, max:	
J3E, R3E, F1B, G1B	1
A3E	4
(M-PSK, QAM)	(0,5)
The number of programmable channels	40
Duty cycle (Tx/Rx), min	1/3
Data rate in vocoder communication modem mode, bit/s	1200
Average tuning time, s	1
Operating altitude , m:	
radio set with B5A1-PrK or B5B2-PrK unit	10000
radio set with B5A2-PrK	28000
Power supply, DC,V:	
radio set with B1-PrK (B1A-PrK) unit	24 – 29.4
radio set with B1B-PrK unit	22.14 – 29.7
Power consumption , W	390
Selective calling mode (SELCAL)	available
Automatic link establishment (ALE)	in versions with
Automatic link establishment (ALE)	B1D-PrK, B1E-PrK units
Interfaces (for versions with ALE mode):	
. control	RS-422, RS-232, FOCT 18977, (Ethernet, CA
information	C1-TЧ, C2, C1-ФЛ, (RS-422, Ethernet)
Operating temperature, °C:	
high	+ 60
low	<del>-</del> 55
Dimensions (for versions with ALE mode) (WxHxD), mm:	
B1PrK (on PrK mount)	133x255x397 (131x211x393)
B5A2-PrK	92x280x440
B5B2-PrK, B5B2K-PrK	152x110x283
B5A1-PrK	156x140x330
B7PrK	146x32x116
Weight (for versions with ALE mode), kg:	
B1PrK	5.9 (7.1)
B5A2-PrK	3.7
B5B2-PrK	2.5
B5A1-PrK	3
B7PrK	0.35
PrK mount	1 44
Meantime between failures, h	5000
This publication is not to be regarded as a complete system specification, or to be used as a contract document	

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