

VHF AIR BAND TRANSCEIVER

## 8.33/25 kHz Ground to Air Radio with Class Leading 1500 mW Powerful Audio



**8.33 kHz and 25 kHz channel spacing**

**1500 mW loud audio provides clear communications**

**6 W (PEP) /1.8 W (carrier) RF output power**

**Built-in Bluetooth® for Hands-Free Operation\***

\* Bluetooth operation depending on the transceiver version.



**Large capacity battery pack provides 17 hours\* of long battery life**

\* With BP-280. Typical operation with TX : RX : Standby = 5:5:90. (Bluetooth OFF, backlight OFF)

**Compact, waterproof durable body (IP67/54 and MIL-STD-810-G)**

**LCD and key backlight for night time operation**

**Compatible\* with third-party aviation headsets**

\* Optional headset adapter OPC-2401 required.

**And More**

- Auto Noise Limiter (ANL) for noise reduction
- Side Tone function
- Internal VOX capability
- 200 memory channels with 8 character names
- BNC type antenna connector



LCD and keypad backlight



IP67 waterproofing



1500 mW powerful audio

**SPECIFICATIONS**

		IC-A16E
<b>GENERAL</b>		
Frequency range	TX/RX : 118.000–136.992 MHz	
Number of memory channels	200 channels	
Channel spacing	8.33 kHz*/25 kHz (* May differ depending on the country.)	
Type of emission	6K80A3E, 5K00A3E	
Power supply requirement	7.2 V DC	
Current drain (approximate)		
TX High	1.8 A	
RX Max. audio/Stand-by	650 mA/65 mA typical	
Antenna impedance	50 Ω (BNC type antenna connector)	
Operating temperature range	-20°C to +55°C	
Dimensions (WxHxD) (Projections not included)	52.2 × 111.8 × 34.1 mm (with BP-280)	
Weight (approximate)	257 g (with BP-280)	
<b>TRANSMITTER</b>		
Output power (at 7.2 V DC)	6.0 W (PEP), 1.8 W (carrier)	
Audio harmonic distortion	Less than 10% (at 85% + 3 dB modulation)	
Harmonics spurious emissions	Less than -36 dBm (Except for operating frequency ±1 MHz.)	
Frequency stability	±1 ppm	
<b>RECEIVER</b>		
Intermediate frequencies	46.35 MHz (1st), 450 kHz (2nd)	
Sensitivity	Less than 0 dBμ (at 12 dB SINAD with CCITT)	
Squelch sensitivity (Threshold)	Less than 0 dBμ	
Spurious response	More than 70 dB	
Hum and noise	More than 40 dB (at 90% modulation)	
Audio output power	INT SP EXT SP	1500 mW typical More than 350 mW (AM 8 Ω 60% modulation at 10% distortion)
External speaker connector	3 conductor 3.5 (d) mm	

Measurements made in accordance with EN300 676-2.  
All stated specifications are subject to change without notice or obligation.

**Applicable U.S. Military Specifications**

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	-
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

**Ingress Protection Standard**

Dust and Water	IP67/54
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**Supplied accessories :** (\* Not supplied, depending on the transceiver version.)

- BP-280 battery pack ●BC-213 rapid charger\* ●BC-242 AC adapter\*
- FA-B02AR antenna ●MB-133 belt clip ●Hand strap

**OPTIONS**

**BATTERY PACKS**

- BP-278** Rechargeable Li-ion 7.2 V  
1190 mAh (typ.), 1130 mAh (min.).
- BP-279** Rechargeable Li-ion 7.2 V  
1570 mAh (typ.), 1485 mAh (min.).
- BP-280** Rechargeable Li-ion 7.2 V  
2400 mAh (typ.), 2280 mAh (min.).  
Same as supplied.



**DESKTOP CHARGER**

- BC-213** Charges the BP-278, BP-279 or BP-280.
- BC-242** AC adapter. Same as supplied.
- BC-123SE/SUK/SV\*** AC adapter.  
\* SE for Europe, SUK for UK, SV for Australia.



**MULTI-CHARGER**

- BC-214\*** Charges up to six transceivers  
and/or batteries at the same time.
- BC-157S** AC adapter.  
\* The AD-130 charger adapter is supplied with the  
BC-214, depending on the charger version.



**VEHICLE CHARGER CABLE**

- CP-23L** For use with the BC-213.



**DC POWER CABLES**

- OPC-515L** For use with the BC-213.
- OPC-656** For use with the BC-214.



**CHARGER BRACKET**

- MB-130** For use  
with the BC-213.



**SPEAKER-MICROPHONE**

- HM-240** Waterproof.



**Bluetooth® HEADSET**

- VS-3** With side tone function when  
connected to transceiver.



**HEADSET ADAPTER**

- OPC-2401**



**BELT CLIP**

- MB-133**  
Same as supplied.



**BELT HANGERS**

- MB-96N** Swivel type.
- MB-96F** Fixed type.
- MB-96FL** Longer type.



**ANTENNA**

- FA-B02AR**  
Same as supplied.

**SOFTWARE AND CABLE**

- CS-A16** Programming software for Windows® PC.
- OPC-478UC** USB type radio programming cable.

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