



# VHF/AM Transceiver

## AR6203

Compact Line/Communication



The AR6203 VHF-AM transceiver is smaller and lighter than its forerunner due to implementation of state-of-art DSP (Digital Signal Processing) technology it is designed in a 160mm format and is equipped with a highly efficient AM transmitter, a very sensitive receiver and a full graphic LC-display that allows easy reading under all light conditions, including full sun light readability. Push button and display illumination can be dimmed.

The AR6203, of course, has **8.33 kHz** channel spacing that will become the new international standard for airborne communication for upper and lower airspace. Switching between the 8.33 and the 25 kHz mode is therefore made effortlessly simple. Standard or dynamic microphones can be used. A built-in-test facility increases flight safety. The **dual watch mode** that facilitate scanning of two different channels is an extra feature. The AR6203, with its integrated **VOX/Intercom** circuit, allows communication between pilot, co-pilot and passengers.

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#### Technical data:

- Supply voltage: 10.25...33 V DC
- Emergency supply voltage: 9.0 V DC
- Output power: 10 W @ 20 V DC
- current consumption: 1.5 mA @ 12 V DC (Power Off)  
140mA @ 12 V DC (Receive standby)
- Frequency range: 118.000 MHz to 136.990 MHz
- Channel spacing: 8.33 or 25 kHz
- Channel selection: 8.33 or 25 kHz (selectable)
- Number of channels: 760 (25 kHz mode)  
2280 + 760 (8.33 + 25kHz mixed mode)
- Squelch: trigger level adjustable
- Storage temp.: -55°C to +85°C
- Operating temp.: -20°C to +55°C, short time +70°C
- Maximum altitude: 35.000 ft.
- Sensitivity:  $\leq -101$  dBm for a (S+N)/N ratio of 6 dB (nominal)
- Bandwidth: +/- 2.78 kHz @ 8.33 kHz  
+/- 8 kHz @ 25 kHz
- Selectivity: +/- 7.37 kHz @ 8.33 kHz
- Audio output: Headphone: 300 mW @ 150  $\Omega$   
Speaker: 4 W @ 4  $\Omega$ , 14 V DC
- Audio Auxiliary input: 1 V to 8 V (adjustable)
- Function: dual watch mode,  
integrated VOX/Intercom

#### Certification:

- ETSO-2C37e and 2C38e

#### Dimensions:

Core height	38.0 mm
- Panel height	42.0 mm
- Core width	156.0 mm
- Panel width	160.6 mm
- Core depth	155.0 mm

- Weight: approx. 1kg