

## AMU6500

Digital Audio Management Unit

DZUS

3D Audio

Intercom

### Overview

The Becker Avionics AMU6500 is a standalone digital audio management unit, which was designed for rotary and fixed wing aircraft. A modular and decentralized system design philosophy has been implemented to allow a maximum of flexibility and scalability with up to three units and nine stereo users during the system integration, and to ensure optimum performance and reliability during in-flight operations.

The AMU6500 is the first state-of-the-art audio management unit using a display to enable various new functionalities with an enhanced user experience. It is an interactive approach to modern cockpit designs offering a big range of individual configurations.

The crystal clear communication is based on a 20-year experience in digital audio systems and the individually programmable soft keys and functions can be tailored to the mission and aircraft configuration.

By combining the display and system architecture, the AMU6500 increases the possibilities of intercom and multicast functions. New functionalities like 3D audio improve the flight awareness significantly.



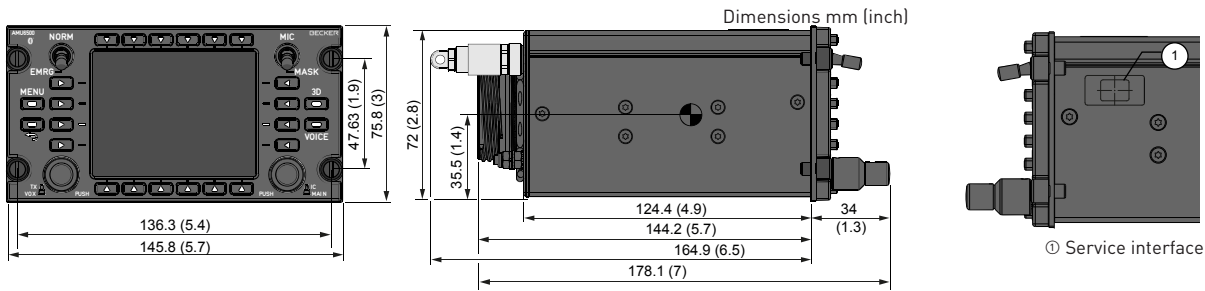
The AMU6500 has been certified according: ETSO-C139a, ETSO-C59b, DO-214A, DO178C Level C, DO-254 Level C and DO-160G.

Optional the AMU6500 has selective call capability (SelCal).

### Features

- 4 transceiver in-/outputs
- 4 receiver inputs
- 3 FIX inputs
- 12 transceiver in a system with three AMUs
- 3 stereo headset user
- 3D audio
- Cockpit speaker
- Cockpit voice recorder
- Bluetooth® (stereo)
  - Music, phone calls, tactical radio, etc.
- ComReplay - internally stored messages for briefing or alert
- Simulcast, marker mute, VOX sensitivity and many more
- Emergency functionality
- SelCal decoder (certified)
- Winchman operation
- Less weight





AMU6500 - with rotary wing panel

## Technical Data

AMU6500	Specification
<b>Nominal voltage</b>	28 VDC
<b>Emergency voltage</b>	18 VDC
<b>Nominal current consumption (one AMU) at 28 V</b>	≤ 1.1 A (Normal Mode) ≤ 0.3 A (Emergency Mode)
<b>Audio input for transceivers, receivers, alerts</b>	1.2...15 V at 600 Ω (configurable via software)
<b>Headphone amplifier</b>	
Rated output power max.	250 mW into rated load
Output impedance	14 Ω
Rated load	300 Ω
Output type	Single ended
<b>Mike amplifier</b>	
AGC starting point (if AGC on)	0.1...1.5 V
Input impedance (AC)	150 Ω
Type	/ Providing excitation voltage
Excitation voltage (w/o microphone)	8...16 VDC
<b>Speaker amplifier</b>	9 W
<b>Display / illumination</b>	16M color display / backlight for the complete front panel
<b>Service interface (USB)</b>	USB 2.0 with Micro B connector
<b>Forced cooling</b>	No forced cooling required
<b>Altitude</b>	50 000 ft
<b>Operating temperature</b>	-40...+55 °C
<b>Storage temperature</b>	-55...+85 °C
<b>Dimensions HxWxD</b>	75.8 x 145.8 x 176.4 mm (3 x 5.7 x 6.9 in)
<b>Weight</b>	< 1.3 kg (2.7 lb)
<b>Installation</b>	Panel installation in cockpit environment, DZUS fastener (4x)
<b>Certifications</b>	
AMU6500-( )-( )	ETSO-C139a, DO-214A, DO178C Level C, DO-254 Level C and DO-160G EASA.210.10071678
SelCal	ETSO-C59b
Bluetooth®	WT32i is qualified as a Bluetooth® 3.0 Controller Subsystem with QDID 49552. WT32i is in conformity with the essential requirements and other relevant requirements of the R&TTE Directive (1999/5/EC). WT32i (QQWT32i) complies with Part 15 of the FCC rules.