BECKER AVIONICS

AMU6510
Digital Audio Management Unit

DZUS 3D Audio Intercom

Overview

The Becker Avionics Audio Management Unit (AMU) 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 AMU 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 AMU increases the possibilities of intercom and multicast functions. New functionalities like 3D audio improve the flight awareness significantly.
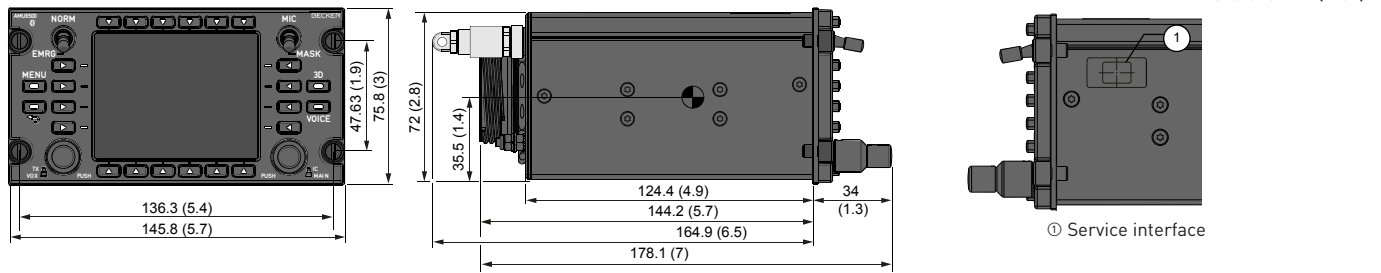
The AMU has been certified according: ETSO-C139a, ETSO-C59b, DO-214A, DO178C Level C, DO-254 Level C and DO-160G.

Optional the AMU 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

- Certified SelCal decoder (optional)
- Winchman operation (optional)
- Guard Radio (optional)
- Dynamic 3D (optional)
- Radio Management (optional)
- Split HMI (optional)
- Intercom Conference (optional)
- Also as NVIS version available
- Easy device change thru replaceable external memory module for configuration
- Less weight
- Glass cockpit connectivity
- Up to 3 control units (ACU6510) can be connected to each AMU6510

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Dimensions mm (inch)

① Service interface

AMU - with rotary wing panel

Technical Data

AMU6510	Specification	
Nominal voltage	28 VDC	
Emergency voltage	18 VDC	
Nominal current consumption (one AMU) at 28 V	≤ 1.1 A (Normal Mode) ≤ 0.3 A (Emergency Mode)	
Audio input for transceivers, receivers, alerts	1.2...15 V at 600 Ω (configurable via software)	
Headphone amplifier	**High Impedance**	**Low Impedance**
Rated output power max.	250 mW into rated load	500 mW into rated load
Output impedance	2 Ω	2 Ω
Rated load	300 Ω	8 Ω
Output type	Single ended	Single ended
Mike amplifier	**Standard Mike**	**Dynamic Mike**
Sensitivity/AGC starting point (if AGC on)	100...1500 mV	0.1...1.5 mV
Input impedance (AC)	150 Ω	20 Ω
Type	Amplified providing excitation voltage	Dynamic
Excitation voltage (w/o microphone)	12 VDC	n.a.
Speaker amplifier	9 W	
Display / illumination	16M color display / backlight for the complete front panel	
Service interface (USB)	USB 2.0 with Micro B connector	
Forced cooling	No forced cooling required	
Altitude	50 000 ft	
Operating temperature	-40...+55 °C	
Storage temperature	-55...+85 °C	
Short time high operating temperature	+70 °C	
Dimensions HxWxD	75.8 x 145.8 x 176.4 mm (3 x 5.7 x 6.9 inch)	
Weight	≤ 1.3 kg (2.7 lb)	
Installation	Panel installation in cockpit environment, DZUS fastener (4x)	
Bluetooth®	HFP, A2DP and HSP protocolls supporting cellphones and handheld radios	
Certifications AMU6500-( )-( ), AMU6510-( )-( )	ETSO-C139a, DO-214A, DO178C Level C, DO-254 Level C and DO-160G, EASA.210.10076774 (AMU6500)	
SelCal	ETSO-C59b	