

## ARMS Compact

Audio & Radio Management System

### Product Features

#### Audio Management (AMU50, ACP51, RM01)

Power: 27.5 VDC, 2.5 A nominal

Microphone Inputs: 7x inputs, 3x selectable impedances:

- 5 ohms (250  $\mu$ Vrms), or
- 75 ohms (850 mVrms), or
- 150 ohms (250 mVrms)

Headphones: 7x outputs, 3x selectable impedances:

- 8 ohms (250 mW), or
- 150 ohms (250 mW), or
- 600 ohms (250 mW)

Radio Audio Inputs: 16x inputs, 1 to 20 Vrms input range 600 ohms input

Radio Mic Outputs: 8x outputs, 50 mVrms to 1 Vrms output Range, <60 ohms output

Radio PTT Outputs: 8x outputs, active Lo

Direct Audio Inputs: 6x inputs, fixed audio output levels, 1 to 15 Vrms input range, 600 ohms input

CVR Outputs: 2x CVR outputs, one for pilot and one for co-pilot, < 600 ohms output, 500 mVrms output

Aural Warnings: 8x internal warnings, messages are .WAV files, assigned by Cobham configuration management software, can be active Hi or Lo

DF Blanking Output: 1x blanking output, active Lo

Music Inputs: 2x inputs, 2x input ranges - 400 mVrms or 2.5 Vrms, 1000 ohm input

ACP/AMU Protocol: RS-422

Lighting: 5/28 V standard, 5 V optional, NVIS-compliant versions optional

Dimensions/ Weight:

ACP51: 2.25" H x 2.62" D x 5.75" W (57 mm H x 67 mm D x 146 mm W)

1.01 lbs max. (0.46 kg)

AMU50: 2.23" H x 11.00" D x 7.48" W (57 mm H x 279 mm D x 190 mm W)

4.11 lbs max. (1.87 kg)

RM01: 0.71" H x 1.69" D x 2.21" W (18 mm H x 43 mm D x 56 mm W)

0.09 lbs max. (0.04 kg)

Compliance:

TSO-C139 - Aircraft Audio Systems and Equipment

DO-178B, Level C

ETSO-C50c - Audio Selector Panels and Amplifiers

DO-214, Class Ib

DO-160E Env. Cat. [[A4]](D1)]-BBB[[SBM]](U2FF1]]XXXXXXZZAZ[ZZ][RR]

H[A3J33]XXXX

#### Audio & Radio Control Display Unit (ARCDU)

Power Supply: 28 VDC, <0.9 A with heater, <0.6 A without heater

ARINC 429 (Hi/Lo): 9x Tx, 16x Rx

RS 485/422: 2x full + 1x half

MIL-STD-1553

Discretes I/O: 23x in / 18x out

Display Backlight: LED

Dimensions/Weight (approx.): without connector

Dimensions: 4.49" H x 5.19" D x 5.75" W (114 mm H x 137 mm D x 146 mm W)

Weight: 3.1 lbs (1.4 kg)

Display Area: 2.56" x 2.41" (65 x 61 mm)

Compliance:

ED14F / RTCA DO-160F

ED80 / RTCA DO-254, Level B

ED128 / RTCA DO-178B, Level B

ETSO C113

#### About Cobham Aerospace Communications

Cobham has more than 60 years of experience in intercommunication and radio systems and is a global supplier of avionics, slip-ring and microwave solutions for civil and military applications.

#### Products Link



FliteLine™ radio communication and radio navigation suite



Wireless Audio Communication Systems (WACS)

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Avionics

## ARMS Compact

Audio & Radio Management System

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#### TOTAL COMMUNICATION CONTROL

- Single point-of-control for all audio and radios
- Digital audio processing
- Intuitive & flexible
- Saves space & weight
- Compatible with civil/military missions
- Optional NVIS compliance



# COBHAM

The most important thing we build is trust



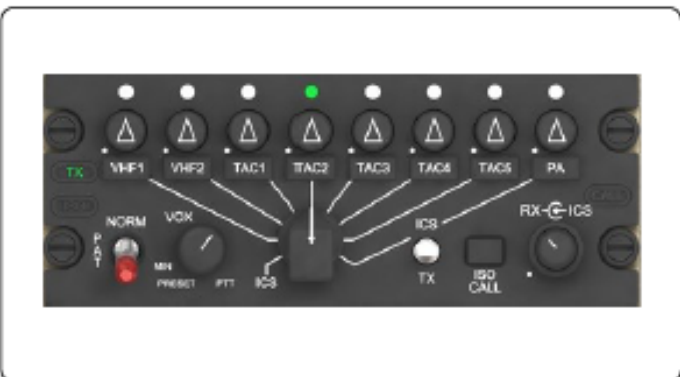
Your mission, our solutions



ARCDU Audio Radio Control & Display Unit



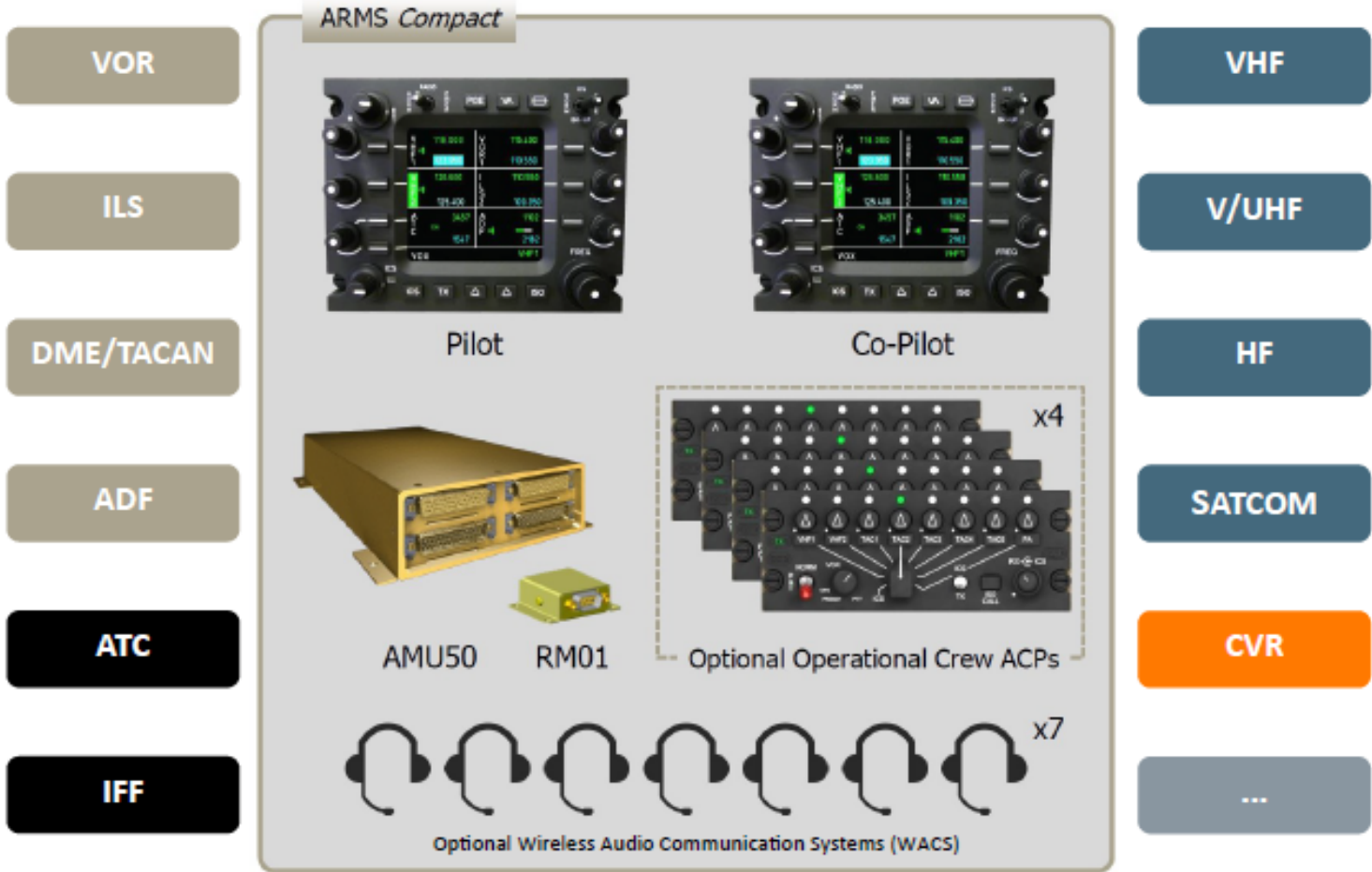
AMU50 Audio Management Unit



ACP51 Audio Control Panel



RM01 Remote Memory



ARMS: Audio & Radio Management System Compact

Cobham's Audio Radio Management System allows management of all aircraft audio and radios. The ARMS is designed to support 8x transceivers, 8x receivers (or a total of 16x receivers), 6x direct/unswitched inputs, 6x ACPs or ARCDUs, a total of 7x headsets (military and/or commercial type) and cockpit voice recorders in a single aircraft. The system is flexible, it can be customized by the OEM or integrator for high adaptability to every cockpit. Cobham's ARMS is currently installed on numerous military transport aircraft worldwide.

ARCDU: Audio & Radio Control Display Unit

The Audio & Radio Control Display Unit (ARCDU) is an intuitive device permitting quick access to civil, tactical and military navigation, communication, Air Traffic Control and identification radios. It benefits from a dynamic, configurable display, loading function, and modular design to match your highest requirements. When coupled with the AMU50, Cobham's ARCDU provides a significant weight- and space-saving solution.

ACP51: Audio Control Panel

Cobham's Audio Control Panel (ACP) offers all the crew needs to manage their communications. The operational crew ACP offers up to 8x transceiver controls, operational mode select, ISO/CALL capability, intercom mode select, and ICS/RX master volume controls. ACP radio legends are of the 'snap-in' type, allowing the OEM or integrator to order ACPs and then customize it to best suit the aircraft's COM/NAV package.

AMU50: Audio Management Unit

The digital Audio Management Unit (AMU) is connected to avionic warnings, transceivers, ARCDUs, ACPs and headsets. Its flexible audio configuration can be set up by the OEM or integrator through the Configuration Software (DevCS) tool. This allows 'standard' products to be sourced, delivered and then customized to suit the aircraft and radio equipment requirements. The AMU also has an integrated aural warning generator, capable of supporting 8x aural/tone warnings. Each may be assigned a priority depending on audible warning's intended purpose.

RM01: Remote Memory

The RM01 remotely stores the system's configuration and aural warning files, allowing replacement of the AMU50 without need to reconfigure the new unit on the bench or in the aircraft. When the hardware is powered up, the AMU50 and RM01 compare the system configuration and aural warning files. If they match, the ARMS is immediately ready and functional. Otherwise, the configuration data from the RM01 is downloaded within 3 minutes into the AMU50.

WACS: Wireless Audio Communication Systems

A range of Wireless Audio Communication Systems (WACS) is available to extend ARMS capabilities and increase safety for winchman, rescuer, ground operators and other users for operations where the use of a hard-wired connection may result in a hazardous situation. Furthermore, the user of WACS would benefit from a greater freedom of move, inside and around rotorcraft, to improve efficiency.