orbit
A KRATOS COMPANY

ADAMS

Airborne Digital Audio Management System

Orbit offers you the ultimate audio management system - the ADAMS. This highly intelligible and secure Airborne Digital Audio Management System (ADAMS) was designed to meet the specific needs of advanced large crew aircraft such as commercial airlines, transportation, tanker and special mission applications.

The ADAMS is a fully digital (audio & control), secure audio management system that integrates the routing and distribution of audio & data between crew members, maintenance crew, technicians and the host aircraft's communication data & recording systems. ADAMS supports up to 20 full capability users, 8 intercom only users, 16 radios and 31 receivers, 6 recording outputs, discrete and an internal intercom network.

Based on a modular, high-performance, open design, ADAMS is a COTS (Commercial-Off-The-Shelf) system, adaptable to all sorts of airborne applications (large to small platforms) to provide a complete interface as well as an advanced DSP-based voice. Providing crisp and clear audio communication, ADAMS will drive you to success.

Specializing in the delivery of audio management systems for over 40 years, Orbit pioneered the industry's shift to digital communications technology. Our dedicated 24/7 service team delivers high levels of service and responsiveness to both customers and partners. With thousands of installations worldwide, Orbit's solutions are deployed on myriad platforms including the F-16V, T-7A, EMB-99, C-295, C-235, C-130, KC-135, King Air 350, P-3, F-15, F-16, MIG 21, CH-53, Mi 8, T-38 and more. Orbit's customers consist of many of the world's aviation leaders, such as Airbus, Boeing, Lockheed Martin, Collins, Embraer, Gulfstream and Bombardier.

Our proven AMS product offerings are certified to meet the stringent standards and specifications of the most demanding users, including the US Navy and US Customs and Border Protection agency.

Benefits

- Superior Cross-Talk isolation
- Simultaneous Red/Black (optional)
- Redundancy
- High reliability (MTBF)
- Easy installation
- Easy maintenance

Key Features

- Extended Built-In-Test mode
- Unlimited number of private intercom nets
- Night Vision Goggles (NVG) compatible (optional)
- VOX capabilities
- Emergency & Backup modes
- Individual volume control
- Communication planprogramming
- Digital recording (E1/T1 Line)
- Interface to digital radio
- External Crypto equipment support (optional)
- Wireless headset (optional)
- Radio relay & switching
- Built-in Voice Message Unit
- SELCAL (optional)
- TSO certified
- Intl. TEMPEST approved (optional)

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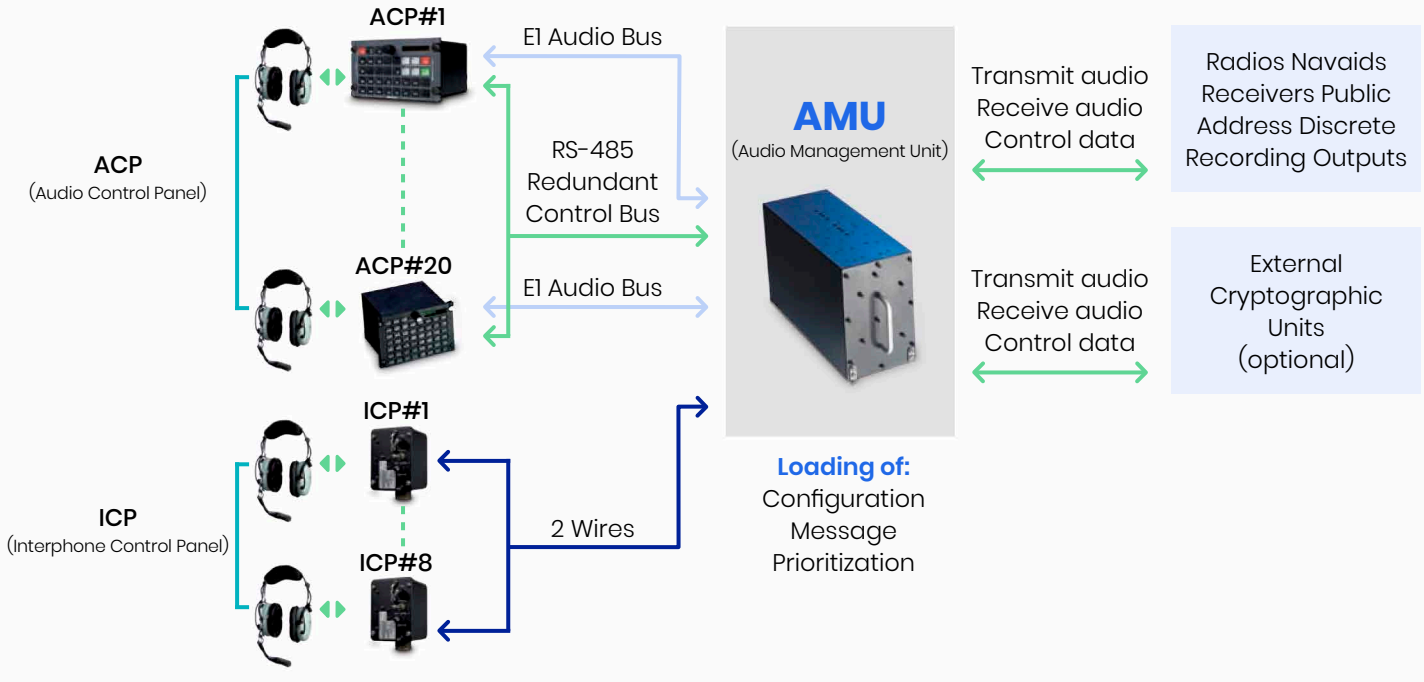
ADAMS System Specifications

Parameters	Specification
Power Requirements: Input Power	 18-32V
Power Dissipation: AMU ACP EDACP ICP	 45W 17W 8W 11W
Signal Levels Reception: Radio NAV Warning	 200mV 13Vrms 200mV 13Vrms 200mV 13Vrms
Impedance: Receive Transmit	 150/600 Ohm 150/600 Ohm
Frequency Response	3dB@300Hz-6Khz

Parameters	Specification
Harmonic Distortion	<3%
Noise Level - No Signal	>60dB
Cross-Talk Isolation	100dB at 1KHz
AGC: Attack Time Release Time	 <50 msec 1.5±1 sec
VOX: Attack Time Release Time	 <50 msec 1.5±1 sec
Reliability AMU-MTBF ACP-MTBF EDACP-MTBF	 10,500 hours 22,500 hours 30,000 hours
Standards/Tests Environmental & EMI Tests	Per DO-160D

Parameters	Specification
Weigt & Dimensions	
AMU	Weight: 11.8 Lb Height: 7.62 In Width: 4.88 In Depth: 12.62 In
ACP **(5 rows/7 rows)**	Weight: 3.5 Lb/4.6 Lb Height: 3.375 In/4.5 In Width: 5.75 In/5.75 In Depth: 5.244 In/5.244 In
ICP	Weight: 1.5 Lb Height: 5.44 In Width: 3.49 In Depth: 3.5 In



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Connectivity in Motion

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