



AIS (AIC-45)

Audio Intercommunication System



Orbit offers you a highly intelligible, secure, digital Audio Intercommunication System for mid-size crew aircraft (fixed and rotary wing) - the AIS.

AIS integrates the routing and distribution of audio and data between crew members, maintenance crew and technicians on the one hand, and the host aircraft communication data & recording systems on the other hand. Supporting up to 6 users, 8 radios, 8 receivers, 8 warnings and 16 discrete, the AIS is a COTS (Commercial-Off-The-Shelf) system, specifically designed to meet the requirements of applications such as VIP, transportation, medical evacuation etc. Based on a modular architecture, the AIS provides all operators on the aircraft with flexibility to control and distribute audio.

Secure, digital high quality audio with simultaneous clear voice and data communication will do the work for you and drive you to success.

With AIS you can be certain you will focus on your targets, completing your mission successfully.

BENEFITS

- High voice quality
- Simultaneous Red/Black (optional)
- Superior Cross-Talk isolation
- High security level
- High reliability (MTBF)
- User friendly message loading
- Easy installation
- Easy maintenance

KEY FEATURES

- Extended Built-In-Test (BIT) mode
- Private intercom nets
- Night Vision Goggles (NVG) compatible (optional)
- VOX & ANR capability
- Emergency & Backup modes
- Individual volume control
- Operation with wireless & noise reducing headset
- PC load setting
- Input & output levels and impedance programming
- Hot Mic (Hands Free)
- Built-in Voice Message Unit
- Maintenance intercom
- External Crypto equipment support (optional)
- Intl. Tempest approved (optional)

Specializing in the delivery of communication 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 over 1,800 installations worldwide, Orbit's solutions are deployed on myriad platforms including the C-130, KC-135, King Air 350, P-3, F-15, F-16, MIG 21, CH-53, Mil 8, T-38 and more. Orbit's customers consist of many of the world's aviation leaders, such as Airbus Military, Boeing, Lockheed Martin, Rockwell Collins, Embraer, Gulfstream and Bombardier. Our proven CMS 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.

AIS System Specifications

Power Supply	16-32 VDC per MIL-STD-704A	Audio Input (PC Setting)	0.2-12V	Filter	400Hz
Panel Lighting	5 VAC - 400 Hz	Audio Output (PC Setting)	0.2-6V	ACP - Dimensions	6"(H)X5.75"(W) X4.75"(D)
Digital Control	Redundant RS-485 Control Bus	Impedance Receive: Transmit:	150/600 (PC Setting) 150/600 (PC Setting)	ADU - Dimensions	7.1"(H)X4.5"(W) X8.6"(D)
VOX: Attack Time Release Time	<20 msec 1.5 sec (selectable 0.8-3.5 sec)	Frequency Response	3dB@300Hz to 6Khz 3dB@300Hz to 10Khz for 4 inputs	Weight ACP: ADU:	4 Lbs 8 Lbs
AGC: Attack Time Release Time	<50 msec 1.5 sec	Noise Level - No Signal	Better than 60dB below rated output power	Environmental Tests	MIL-STD-810F
Cross-Talk	Better than 100dB	Microphone Inputs	Electret 200mV or Dynamic 0.3mV compatible with M-101 or equivalent	EMI Tests	MIL-STD-461 E

