AMSIP
Audio Management Solution over IP

AMSIP is a sophisticated VoIP interface designed for use with all Orbit's digital audio management solutions. Providing seamless convergence, the system enables the use of both TDM and IP-based end-devices by airborne and seaborne crews.

The digitally controlled solution provides secure communication, supports a variety of dedicated IP terminals and laptops and can be easily adapted to a wide range of airborne applications.

Delivering all the features of a standard VoIP-based interface, AMSIP supports SIP & MGCP protocols, G711, G723 & G729 vocoders, fax over IP and conference calls, as well as adaptive jitter buffer and echo cancelling.

The easily installed system offers enhanced cross-talk isolation, ensuring continuous high quality voice. Flexible and scalable, AMSIP allows the gradual adoption of IP technology according to customer requirements, providing the ideal solution for both current and future needs.

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

- Seamless transmission from TDM to IP technology
- Enhanced cross-talk isolation
- High reliability (MTBF)
- All-in-one solution

Key Features

- Supports voice, video, data and fax over IP
- Enhanced echo-cancellation mechanism
- Supports SIP & MGCP protocols
- Emergency & backup modes
- VOX capability
- Supports G711, G723 & G729 voice compression
- Radio relay & switching
- External Crypto equipment support (optional)
- Dynamic Jitter delay compensation mechanism
- Night Vision Goggles (NVG) compatible (optional)

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AMSIP System Specifications

Parameters	Specification
Power Requirements: Input Power	18-32V
Power Dissipation: DAIU DACP ICP	45W 17W 11W
Signal Levels Reception: Radio NAV Warning	100mV 12Vrms 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
Reliability DAIU-MTBF DACP-MTBF	10,500 hours 22,500 hours
Standards/Tests Environmental & EMI Tests	Per DO-160D
Codec Support	G711 G723 G729

Parameters	Specification
Weigt & Dimensions	
DAIU	Weight: 8 Lb Height: 7.62 In Width: 4.88 In Depth: 12.62 In
DACP	Weight: 2.7 Lb Height: 3.375 In Width: 5.75 In Depth: 6.19 In
ICP	Weight: 1.5 Lb Height: 5.44 In Width: 3.49 In Depth: 3.5 In
LAN Interface: Switch Port	8 x 10 / 100 Mbps

- ACP
- Audio & Control Busses
- ACP
- ICP
- 2 Wire Link
- ICP

- SUB DAIU 1 — Digital Processing Card — **Power Supply**
- Ethernet Bus
- SUB DAIU 2 — Digital Processing Card — **Power Supply**
- DAIU
- **TDM IP Gateway**
- **IP Switch**

- Radio (x16)
- Navigation (x19)
- Warning (x12)
- Discrete Input (x9)
- Discrete Output (x4)
- Recording Output (x6)

(Optional)
- External Crypto Interface Unit — ECIU
- Crypto x 2
- Modem

8 x 10 / 100 Mbps Switch Ports

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Connectivity in Motion

info@orbit-cs.com | **www.orbit-cs.com**