

AICON | DHS 311

DIGITAL INTERCOMMUNICATION SYSTEM

#Avionics



FULLY DIGITAL INTERCOMMUNICATION
FULL SYSTEM REDUNDANCY
SOFTWARE CONFIGURABLE SYSTEM INTERFACES



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AICON | DHS 311

DIGITAL INTERCOMMUNICATION SYSTEM

AICON DHS 311 is a Digital Intercommunication Systems (ICS). The System provides communication between aircraft crewmembers, managing communication equipments, and integrating audio and intercom facilities together with all audio caution and warning messages.

AICON DHS 311 provides reliable and high intelligible high quality audio communication for noisy military environments. Architecture of DHS-301 provides redundancy of all critical functions.

AICON DHS 311 is capable of supporting different pre-programmed ICS configurations. It can be easily configured without any hardware changes.

Subassemblies

- Extended Audio Control Panel (EACP) (User interface for adjustments and selections)
- Digital Audio Central Unit (DACU) (Audio distribution for control panels)



Extended Audio Control Panel (EACP)



Digital Audio Central Unit (DACU)

General Specifications

- Radio Receiver/Transmitter Channels Control
- Multiple Radio Transmission Capability
- Navigation Receiver Channels Control
- Controlled and Uncontrolled Direct Receiver Channels Support
- Interphone Channel Management
- Interphone Communication between pre-defined Groups (NET Operation)
- Sidetone Capability
- Voice Recorder Output
- BIT (Built-In Test) Capability
- Tone Generation and Control
- Microphone selection capability for Oxygen Masks

Interfaces

- Analog Audio I/O Interfaces
- Serial Interface (RS-232/RS-485/RS-422)
- Discrete I/O Interfaces
- Dual Redundant MIL-STD-1553B Interface

Physical Specifications

- Dimensions
 - EACP: 86 mm (H) x 146 mm (W) x 179 mm (D)
 - DACU: 260 mm (H) x 200 mm (W) x 75 mm (D)
- Weight
 - EACP: < 1.8 kg
 - DACU: < 3.1 kg

Technical Specifications

- Power Input: 28 VDC (Nominal)
- Power Consumption
 - EACP: 12W (Nominal) / 14W (Maximum)
 - DACU: 24W (Nominal) / 28W (Maximum)

Environmental Conditions

- Operating Temperature and Altitude: -40°C / +71°C, 20.000 ft
- Storage Temperature: -54°C / +71°C

Qualifications

- MIL-STD-461E
- MIL-STD-810G
- MIL-STD-704 A/E



Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.