ACCESS/A   A710/A711

TSO'd High Performance Airborne Audio Systems

A710

A711

Technisonic High Performance Audio Control Stations

The ACCESS/A system is based on an integrated family of modular, field configurable, panel mounted controls, coupled with external special function units, which produce a complete airborne communications suite. This flexible audio system architecture supports extensive transceiver support, multiple ICS busses, alerting, warning and signaling functions, voice message storage, partitioned crews, and greatly expanded interface capabilities.

ACCESS/A is the physical layer of interconnection and interface between airborne crews and their radio systems, as well as providing internal intercom, internal and external paging, airframe alerting, music and entertainment functions. ACCESS/A makes multiple independent crew groups with cross-linking easy to implement for applications like emergency medevac or forestry aircraft, and delivers high performance solutions for the complex multi-transceiver communications found in SAR, customs, emergency services and police aircraft.

Compare These Features

Unlike many existing systems, ACCESS/A A710 and A711 controls are designed to be continuously expanded, relabeled and upgraded in the field, and can be easily re-configured as the aircraft systems are changed or improved. Up to 10 crew stations, and up to 6 crew members per crew station can be supported within a single aircraft. Many special modes and functions such as voice alerting, voice storage, NVG compatibility and custom panel legends can be implemented to provide a very high level of completion center customization, and the modular construction permits easy "one-shot" solutions for unusual mission specific problems.

Support for all common aircraft headset impedances is standard, including 8, 20, 150, 300 and 600 headsets, as is "fail-passive" emergency headset and boom microphone operation. Carbon-equivalent, amplified dynamic and amplified electret microphones are supported, and an optional external module can be installed for un-amplified low impedance dynamic microphone support.

To address installation concerns and costs, ACCESS/A systems include A740 interconnect bays and modules that reduce the labor, time and expense of configuring complex ship installations. A740 junction bays, to simplify wiring and harness fabrication, packaged micro-speakers and user station jack & switch units are all available to solve these problems quickly and inexpensively.

A710/A711 ACCESS/A stations support both speaker and headset based installations, and can provide internal paging as well as interfaces to commercially available external paging systems.

General Specifications
Model A710/A711

Power requirements:

Aircraft 28 VDC supply (-20% +15 %), 350 mA nominal load.
Meets TSO transient schedule, over voltage and brownout conditions.
28 Volt lighting @ 100 mA, 5 Volt lighting @ 340 mA.

Size and weight:

A710 Dzus panel, (5.75" wide x 1.875" high x 6.07" deep). Weight 2.4 lbs.
A711 Dzus panel, (5.75" wide x 2.625" high x 6.07" deep). Weight 3.0 lbs.
Weights shown include optional alerting module.

Environmental:

-40C/+70C operating, -55C/+85C survival temperature.
Humidity maximum 96% non condensing.
Shock 12g, any axis
Altitude, to 25,000 feet. (cat. B2)
DO-160C ENV. CAT. (A2B2)-CA(BMN)XXXXXXABBBAXZXXXXXX

Cosmetic:

Panel color either Flat Black or Cessna Cadet Flat Gray.
Radio legends are field replaceable Lexan overlays.

System Features:

One to six users per control station.
Direct push-button Tx function selection, no rotary switches.
A711 has individual transceiver volume controls, A710 does not.
Supports all headset impedance's from 8 to 600 ohms.
Optional voice alerting functions with priority.
Optional voice message storage/replay function.
Six transceiver support, plus PA.
Headset and Speaker Outputs.
Soft music muting and stereo music input capability.
VOX, PTT or LIVE ICS modes
Individual Tx status enunciation.
High cross-talk and ground loop rejection.
Split ICS/Rx volume controls.
Emergency Rx/Tx capability, including boom mic support.
Changeable front panel legend system.
Long-life solid state panel lighting system, NVG option.
Configurable ICS loops.
Designed and **TSO'd** to RTCA C50c audio standard.
Supports multiple transmitter SIMULCAST operation.

Interface Data:

At least 500 mW into 150 ohms (per primary user).
At least 1500 mW total into all users (150 ohms).
Distortion less than 2% THD at 1 kHz at total rated output.
Speaker output at least 2.5 Watts into 8 ohms.
Input to input isolation better than -70dB between radio inputs.
Deselected input isolation better than -65 dB.
Hum and noise better than -60dB below 500 mW.
Frequency response within 6dB from 300 Hz to 6000 Hz.
Up to 10 stations per system.
Floating input and output connections.
Ground seeking key and alert lines.