FliteLine™ Advanced Avionics

Next generation navigation and communications equipment

COBHAM

The most important thing we build is trust

CVC-151, CVN-251

FliteLine™ Com/Nav Systems

CVC-151 VHF COM Transceiver:

The FliteLine VHF communication system is an all digital VHF transceiver built and designed to ARINC Air Transport specifications. The CVC-151 VHF transceiver is designed to meet the latest ATC environment and all future CNS ATN requirements. The CVC-151 is upgradeable to VDL Mode 2. The FliteLine communication system features a 20 watt solid-state transmitter and is compliant with 25 kHz or 8.33 kHz spacing. The CVC-151 transceiver can be tuned via ARINC 429 bus using an individual CVN-252 Nav Control Display, the CCN-955 Com/Nav Control Display, FMS, the Universal Avionics RCU, or the Series III RMS 555 Radio Management System.

Features:

- More than 40% weight and space savings over Series III radio
- Drop in replacement for Series III radios (adaptor bracket required)
- Built-in SELCAL and ACARS capability
- Multiple lighting curve options
- Increased system self-test and BIT
- ARINC 429 Digital Data Bus
- Continuous transmit capability (at reduced power)
- 8.33 and/or 25 kHz channel spacing
- Lightning and HIRF protection

CVN-251 VHF NAV Receiver:

The FliteLine VHF navigation system is an all digital system which combines VOR/LOC, Glideslope, and Marker Beacon functions. This receiver supports the navigation interface requirements for MFD, moving map displays, and Nav auto-tune. Additional interfaces are provided to support analog HSI's, CDI's, and RMI's. Automatic calibration of the VOR converter ensures navigation guidance accuracy. The ARINC 429 digital data bus outputs are compatible with EFIS displays. The CVN-251 can be tuned via the CVN-252 control display, the CCN-955 Com/Nav Control Display, FMS, the Universal Avionics RCU, and the Series III RMS-555 Radio Management System.

Features:

- 50% weight and space savings over Series III radio
- Drop in replacement for Series III radios (adaptor bracket required)
- Analog outputs to CDI's and HSI's
- Digital radial/bearing output
- ARINC 429 Digital Data Bus
- FM immunity
- Increased self-test and BIT
- Multiple lighting curve options
- Special rotor modulation protection

CDM-451, DFS-43A

FliteLine™ Navigation Systems

CDM-451 Distance Measuring System:

The CDM-451 is an all digital three channel DME that provides ARINC 429 outputs along with analog outputs for two displays or EFIS MFD's. The third output channel can also provide single DME output to the FMS for independent navigation solution. DME ground speed, distance, and time to station can also be displayed on the SD-442B DME selector control display. The receiver can be tuned by CVN-252 Nav Control Displays via the CVN-251 Nav receiver, FMS, the Universal Avionics RCU's, or the Series III RMS 555 Radio Management System.

Features:

- 50% volume and weight savings compared to Series III DM-441B
- 325 Watt transmitter
- Drop in replacement for Series III radios (adaptor bracket required)
- Increased built-in diagnostics
- Burst mode timing options
- New FliteLine CVN-252 color Control Display
- Simultaneous scanning of three ground stations
- Continuous self-test
- FMS auto-tune capable

DFS-43A Direction Finder System:

The DFS 43A Automatic Direction Finder is an all-digital system designed to provide ADF navigation reception from non-directional beacons (NDB), locator outer markers (LOM), and commercial AM broadcast stations. Through microprocessor-controlled signal processing and a self-calibration routine, the DFS 43A system ensures the accuracy of displayed ADF information. The AT-434A combined sense/loop antenna is designed specifically for use with the DF-431B receiver. Streamlined in shape to reduce drag, the antenna provides superior signal reception throughout all modes of DFS 43A system operation. The DF-431B receiver unit can be tuned via ARINC 429 digital data bus by the CDF-552 ADF Control, FMS, the Universal Avionics RCU, or the Series III RMS 555 Radio Management System.

Features:

- Left/right steering guidance to/from NDB
- Autopilot interface
- Half or whole kHz channel spacing
- Specially designed loop/sense antenna
- Optional FliteLine stand-alone control head (CDF-552)
- Continuous self-test
- Built-in diagnostics
- ARINC 429 Digital Data Bus
- Improved station overfly sensitivity

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