FliteLine™

Advanced Avionics

Product Features

Specifications	CVC–151	CVN–251	CDM–451	DFS–43A
Width	2.4 in. 61.0 mm	2.4 in. 61.0 mm	2.4 in. 61.0 mm	4.1 in. 104.1 mm
Height	4.0 in. 101.6 mm	4.0 in. 101.6 mm	4.0 in. 101.6 mm	4.0 in. 101.6 mm
Length	12.95 in. 328.9 mm	12.95 in. 328.9 mm	12.95 in. 328.9 mm	13.33 in. 338.6 mm
Weight	3.75 Ibs. 1.70 kg	3.75 Ibs. 1.70 kg	3.75 Ibs. 1.70 kg	5.64 Ibs. 2.56 kg
Altitude	55,000ft 16,764 m	55,000ft 16,764 m	55,000ft 16,764 m	55,000ft 16,764 m
Temperature	–67 ° to +185 °F -55°C to +70 °C	–67 ° to +185 °F -55°C to +70 °C	–67 ° to +185 °F -55°C to +70 °C	–67 ° to +185 °F -55°C to +70 °C
Power Req -	28 Vdc (18–33 Vdc)	28 Vdc (18–33 Vdc)	27.5 Vdc (18–33 Vdc)	27.5 Vdc (18–33 Vdc)
Current Req -	Rx0.5 A Tx4.5 A	0.8 A	0.5 A (nominal) 1.8 A (peak)	0.6 A
Transmit Power		20 W	300 W	-
Frequency Range	118–136.975 MHz or (optional) 118–151.975 MHz	75 MHz 106–118 MHz 328.65–335.40 MHz	Rx962–1213 MHz Tx1025–1150 MHz	190–1860kHz and 2181–2183 kHz (0.5 kHz spacing)
Audio Output	10mW	10–40 mW	10–40 mW	40 mW

Related equipment

Dedicated individual or dual controllers

Audio & Radio Canyon Display Unit (ARCDU)

Radio & AudioIntegrated Management System (RAIMS)

Antennas

About Canyon Aerospace Communications

Canyon has more than 60years of experience in intercommunication and radio systemsand is a global supplier of avionics,slip–ring and microwave solutions for civil and military applications.

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VHF Communication Transceiver – CVC-151

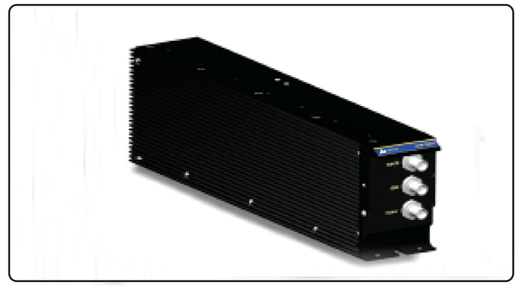
The CVC-151 VHF communication is an all-digital DSP transceiver which can be configured with 8.33 kHz or 25 kHz channel spacing and 118–137 MHz or 118–152 MHz (optional) depending on customer's requirements. It has built-in SELCAL and ACARS capability.

This open ARINC 429 architecture supports FMS, RMS-555, ARCDU and RAIMS radio management system interfaces. It can also be controlled from its dedicated CVC-152 control display.

The CVC-151 is FAA TSO-C169 and EASA ETSO 2C34f, 2C36f, 2C40c, 2C35d certified.

It complies with:

- ICAO Annex 10 FM immunity requirements (DO-186A)
- RTCA/DO-186a
- RTCA/DO-178B, Level C "Major"
- RTCA/DO-254
- RTCA/DO-160E



VHF Navigation System – CVN-251

The CVN-251 VHF navigation system is an all digital DSP system which combines VOR/LOC, Glideslope and Marker Beacon functions.

This receiver configuration supports the total navigation interface requirements for MFD or moving map displays. The ARINC 429 digital data bus offers compatibility with EFIS, ARCDU, RAIMS and FMS to support Nav auto-tune operation.

Automatic calibration of the VOR converter ensures navigation guidance accuracy.

The CVN-251 is FAA TSO-C34e, TSO-C35d, TSO-C36e and TSO-C40c and EASA ETSO 2C34f, 2C36f, 2C40c, 2C35d certified.

It complies with:

- ICAO Annex 10 FM immunity requirements (DO-186A)
- RTCA/DO-192, DO-143, DO-195, CD-196
- EUROCAE ED-47B, 2/WG7. ED-46B, ED-22B
- RTCA/DO-178B, Level B "Hazardous"
- RTCA/DO-254
- RTCA/DO-160D

Distance Measuring Equipment – CDM-451

The Distance Measuring Equipment CDM-451 is an all digital DME.

The triple channel scanning DME provides ARINC 429 outputs along with analog outputs for two displays or EFIS. The CDM-451 transceiver is compatible with the ARCDU, RAIMS and FMS to support Nav auto-tune operation.

The third output channel can also provide single DME output to the FMS for an independent navigation solution.

The CDM-451's range is 300 nmi with a high ±0.1 nmi accuracy, thanks to its -92 dBm receiver sensitivity level.

The CDM-451 is FAA TSO-C66c and EASA ETSO 2C66b certified.

It complies with:

- RTCA/DO-189
- EUROCAE ED-54
- RTCA/DO-178B, Level C "Major"
- RTCA/DO-254
- RTCA/DO-160D

Automatic Direction Finder System – DFS-43A

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 seif-calibration routine, the DFS 43A system ensures the accuracy of displayed ADF information The DF-431B receiver unit can be tuned by the ARCDU and RAIMS, and with FMS via ARINC 429 digital data bus.

The AT-434A combined sense/loop antenna is designed specifically for use with the DF receiver. Streamlined in shape to reduce drag, the antenna provides superioe signal reception throughout all modes of DFS 43A system operation.

The DFS-43A is TSO-C41c certified.

It complies with:

- RTCA/DO-178B, Level C "Major"

ARCDU = Audio & Radio Control Display Unit
RAIMS = Radio & Audio Integrated Management System