



ADVANCED AVIONICS
for mission critical communications



CANYON

FLITELINE™
COM, NAV, DME, ADF



FLITELINE™

A complete suite of next generation navigation and communication equipment

Technical Specifications

	DFS-43A	CDM-451	CVN-251	CVC-151
Width	4.1 in, 104.1 mm	3.3 in, 83.0 mm	2.4 in, 61.0 mm	2.4 in, 61.0 mm
Height	4.0 in, 101.6 mm	3.9 in, 98.0 mm	4.0 in, 101.6 mm	4.0 in, 101.6 mm
Length	13.33 in, 338.6 mm	12.95 in, 328.9 mm	12.95 in, 328.9 mm	12.95 in, 328.9 mm
Weight	5.64 lb, 2.56 kg	3.60 lb, 1.63 kg	3.75 lbs, 1.70 kg	3.75 lbs, 1.70 kg
Altitude	55,000 ft, 16,764 m	55,000 ft, 16,764 m	55,000 ft, 16,764 m	55,000 ft, 16,764 m
Temp.	-67°F to +185°F (-55°C to +70°C)	-67°F to +185°F (-55°C to +70°C)	-67°F to +185°F (-55°C to +70°C)	-67°F to +185°F (-55°C to +70°C)
Power Req.	27.5 Vdc, (18-33 Vdc)	27.5 Vdc, (18-33 Vdc)	27.5 Vdc, (18-33 Vdc)	27.5 Vdc, (18-33 Vdc)
Current Req.	0.6 A	0.5 A (nominal) 1.8 A (peak)	0.8 A	Rx 0.5 A Tx 4.5 A
Transmit Power	-	300 W	20 W	-
Frequency Range	190-1860 kHz and 2181-2183 kHz (0.5 kHz spacing)	Rx 962- 1213 MHz Tx 1025- 1150 MHz	75 MHz 106-118 MHz	118-136.975 MHz or (optional) 118-151.975 MHz
Audio Output	40 mW	10-40 mW	10-40 mW	10 mW

Communication and Navigation

- Digital Signal Processor
- Compact size and light weight
- Certified for Commercial Air Transport
- Interfaces with glass displays



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 self-calibration routine, the DFS 43A system ensures the accuracy of displayed ADF information. The DF-431B receiver unit can be tuned by an 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 superior signal reception throughout all modes of DFS 43A system operation. The DFS-43A is TSO-C41c certified.

It complies with:

- RTCA/D0-189
- EUROCAE ED-54
- RTCA/D0-178B, Level C
- RTCA/D0-254
- RTCA/D0-160D



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 FMS's 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 range of the CDM-451 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/D0-189
- EUROCAE ED-54
- RTCA/D0-178B, Level C
- RTCA/D0-254
- RTCA/D0-160D



VHF Navigation System CVN-251

The CVN-251 VHF navigation system is an all digital DSP system that 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 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, TSO-C40c and EASA ETSO 2C34f, 2C36f, 2C40c, 2C35d certified.

It complies with:

- ICAO Annex 10 FM immunity requirements (D0-186A)
- RTCA/D0-186a
- RTCA/D0-178B, level C
- RTCA/D0-254
- RTCA/D0-160E



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 and EFIS 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 (D0-186A)
- RTCA/D0-192, D0-143, D0-195, CD-196 EUROCAE ED-47B, 2/WG7, ED-46B, ED-22B
- RTCA/D0-178B, Level B
- RTCA/D0-254
- RTCA/D0-160D

ADVANCED AVIONICS

Communications Without Limitations



Compact, Lightweight, Robust Displays

Fliteline panel-mount controls install quickly and easily with minimal wiring changes when replacing many older radio controllers. Featuring LCD displays, they are NVG-compatible.

- CCN-955 COM/NAV Display combines Com and Nav tuning in a single display for a 50% space reduction. It supports 2 x 5 tuning and ARINC 429 interface.
- CVC-152 VHF COM Display features 8.33 and 25 kHz selectable tuning that covers the 118.000-136.975 standard and 118.000- 151.975 extended frequency ranges.
- CVN-252 VHF NAV Display shows active and standby frequencies along with radial and bearing information. It supports 2 x 5 tuning and ARINC 429 interface.
- CTR-352 ATC Transponder Display controls dual remote transponders. Both controller and flight segment identifiers are indexed via display.
- ADF Control Display controls dual remote ADF receivers. The display menu includes ADF station, antenna, bearing and BFO information.

Technical Specifications

Width	2.50" (63.5 mm)
Height	3.15" (80.01 mm)
Length	4.29 (108.97 mm) including connector
Weight	.77 lb. (0.35 kg)
Altitude	55,000 ft (16,764 m)
Temperature	-4° to +158°F (-20° to +55°C)
Power Consumption	280 mA max
Power Requirements	(Lightning) 5.0 Vac, 5.0 Vdc & 28 Vdc



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Canyon AeroConnect is a global supplier of avionic-standard aircraft communications, navigation and audio/intercom systems