

ALTO

AVIATION

Premium Cabin Audio/Entertainment Solutions
for all aircraft in Business Aviation™

DX-135

Aircraft 4 Channel Digital Amplifier
with 4 Source Input



The ALTO Acapella Series DX-135 is a TSO-C139a certified amplifier for aircraft cabin loudspeakers. The unit has 4 channels with 4 stereo inputs with discrete source selection, volume control and speaker on/off and a PA override feature (3 stereo inputs if PA is used). The amplifier has 4 independent audio power amplifier outputs supporting loudspeaker loads down to 4 ohms. The amplifier consists of a 4 X 40W / channel Class D audio amplifier stage. The integrated Digital Signal Processor contours the sound for perfect matching to the loudspeakers. For control purposes there are 13 opto-isolated discrete logic inputs. These can be configured as volume/select controls for the speakers. The unit is fully configurable via a custom software interface to support numerous combinations of loudspeaker, selection methods and PA override functions.

FEATURES

- Unit certified to TSO-C139a
- 4 channels, 40 Watts RMS per channel Class D for very high efficiency with low heat output
- Integral EQ customized for each aircraft interior
- Advanced DSP including dynamic bass management, signal compression, spatial enhancement, Sinewatch™ distortion elimination
- Supports up to 4 inputs with selection, volume control and speaker on/off via discrete logic
- PA Override feature (Uses Audio Input 1 Source)
- Operates on 28VDC power supply
- Weighs less than 2.0 lbs. (1 lbs. 15 oz.)
- Small enclosure with forced air cooling for flexible mounting

SPECIFICATIONS

Product Code	106570-0135
Frequency Response	20Hz - 20KHz custom contoured to specific aircraft cabin
Power Supply	28VDC
Operating Current	500 mA idle, 1 A nominal, 6 A maximum
Audio Input	4 stereo analog inputs, diff 44kohm input plus one Mic configurable as Ground biased All inputs accept line signal between 600mV and 4V RMS nominal
Output Power	40 Watts RMS/channel (160W) total
Output Load	Loudspeaker: 4 - 8 Ohm recommended Average impedance of all 4 channels must be >3.5 ohms
Distortion	<0.1% THD @ 50% rated power, maximum 3% (distortion limiter active)
Equalizers	Custom designed EQ/crossovers matched to aircraft cabin utilizing loudspeakers from the ALTO Aviation Entertainment System (AES) catalog
Dimensions	5.3"W x 1.7"H x 9.8"D (135mmW x 42mmH x 249mmD)
Weight	< 2.0 lbs / 0.9 kg
DO-160G Env. Cat.	[A2X]CAB[(SC)(HR)]EXXXXX[Z(XX)]AZ[AC][TT]M[XXE3XX][XXXX]XAX

DX-135 4 Channel Digital Amplifier with 4 Source Input

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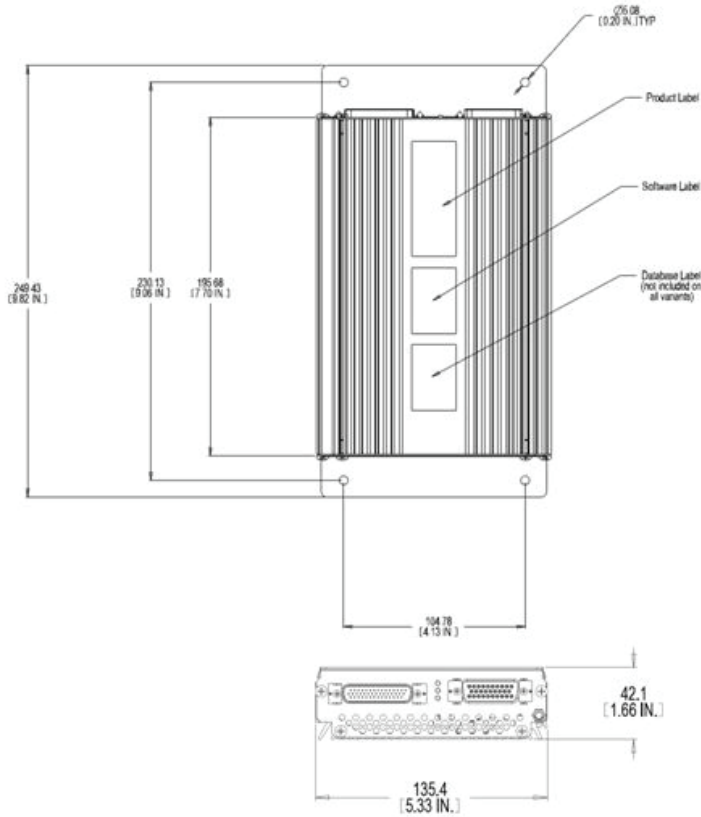
A V I A T I O N

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DIMENSIONS

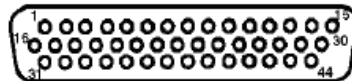


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CONNECTOR PINOUTS

Signal Connector J4

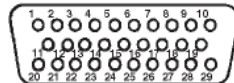
44 pin Male Hi-Density
Mating connector



D-Sub Positronic # ODD44M5B100V5X
Positronic # ODD44F10JV LX

Power Connector J5

29 pin Male Std-Density
Mating connector



D-Sub Positronic # MD29M5B100V5X
Positronic # RD29F10JV LX

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