

ALTO

AVIATION

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

DX-130

Aircraft 4 Channel Digital Amplifier
with Single Source Input



The ALTO Acapella Series DX-130 is a TSO-C139a certified amplifier for aircraft cabin loudspeakers. The unit has 4 channels with one stereo input with a discrete PA override feature. 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. The unit is fully configurable via a custom software interface to support numerous combinations of loudspeaker and PA override functions. This unit requires a variable input level for volume control. It is well suited for personal media devices with volume controlled output.

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 one volume controlled input and speaker on/off via discrete logic
- PA Override feature with discrete ground select
- 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	106570-0130
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	Single stereo analog input, 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)]EXXXXXZ[Z(XX)]AZ[AC][TT]M[XXE3XX][XXXX]XAX

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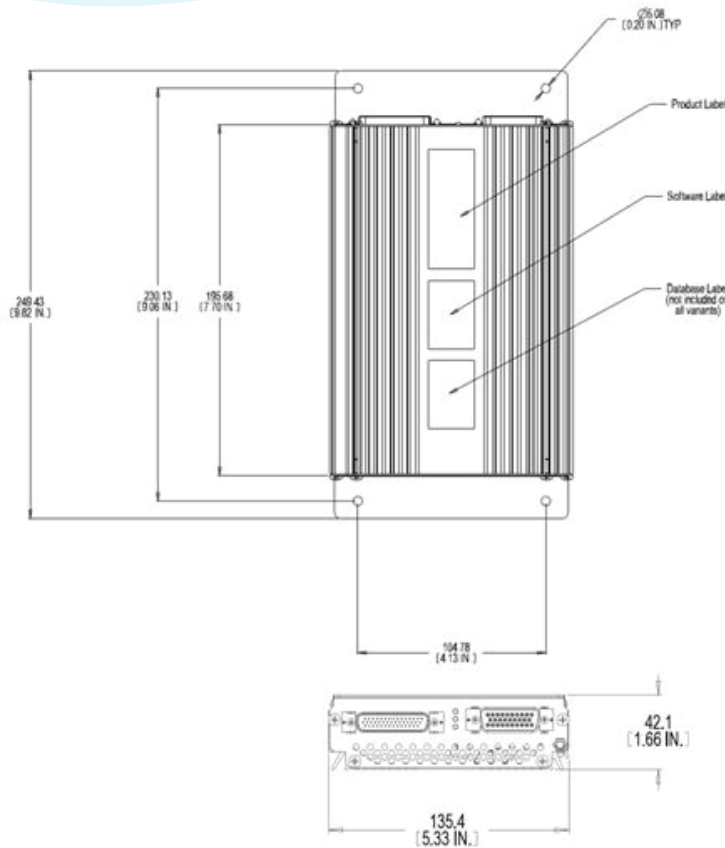
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DIMENSIONS

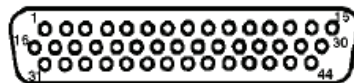


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CONNECTOR PINOUTS

Signal Connector J4

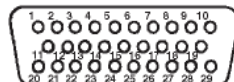
44 pin Male Hi-Density
Mating connector



D-Sub Positronic # ODD44M5B100V5X
Positronic # ODD44F10JV LX

Power Connector J5

29 pin Male Std-Density
Mating connector



D-Sub Positronic # MD29M5B100V5X
Positronic # RD29F10JV LX