

ALTO

AVIATION

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

CA-003

Cabin Audio Selector with 4 Source
Input and Multi-Zone Output



The Alto Acapella Series CA-003 is a TSO-C139a certified line level cabin audio selection controller with 4 stereo inputs and a PA mute feature. The unit provides 6 line outputs that can be configured to drive 3 stereo amplifiers or zones.

For control purposes there are 13 opto-isolated discrete logic inputs. These can be configured as cabin control, PA, and mute functions which are controlled by ground active circuits, often from keypads or relays. The unit is fully configurable via a custom software interface to support numerous combinations of audio zones and PA override functions. An optional chime speaker output is also available.

FEATURES

- Unit certified to TSO-C139a
- Supports 3 Independent cabin zone outputs with corresponding volume, source select, and mute controls
- Supports four differential source inputs or three with PA
- Advanced DSP including dynamic bass management, signal compression, spatial enhancement, Sinewatch™ distortion elimination
- Control via ground active discrete ground inputs
- PA Override or mute feature selectable via discrete ground input
- Operates on 28VDC power supply
- Weighs less than 2.0 lbs. (1 lbs. 15 oz.)
- Small enclosure with low current draw
- Optional chime speaker output

SPECIFICATIONS

Product Code	106570-0003
Frequency Response	20Hz - 20KHz custom contoured to specific aircraft cabin
Power Supply	28VDC
Operating Current	500 mA idle, 500 mA nominal, 1 A maximum
Audio Input	4 stereo analog inputs, diff 44kohm plus one Mic configurable as ground biased All inputs accept line signal between 600mV and 4V RMS nominal
Line Output Power	3 Stereo Total, 300 mW RMS Per channel 50 mW RMS
Output Line Load	>32 ohms
Distortion	<0.1% THD @ 50% rated power, <0.5% THD @ rated power
Output Noise	< 50uV A-Weighted with no input signal
Dimensions	5.3"W x 1.7"H x 9.9"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
Connector Kit	Uses ALTO PN 200901 for mating connector kit

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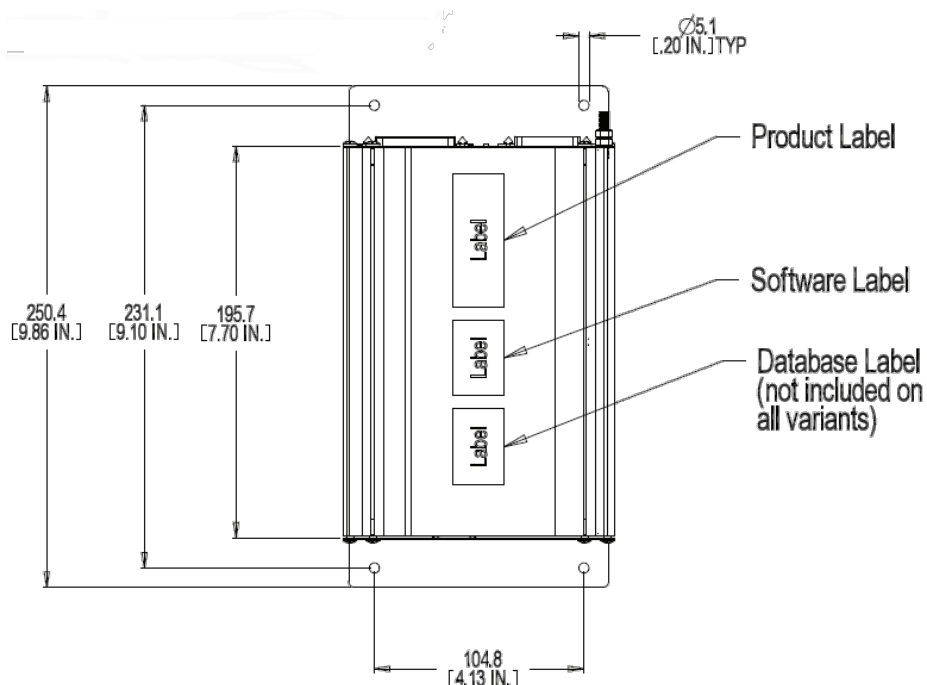
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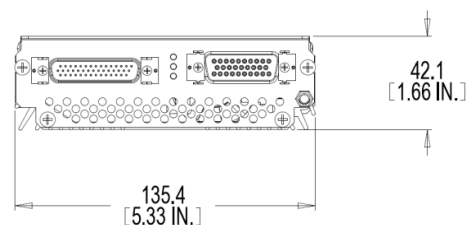
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CA-003 Aircraft Cabin Audio Selector



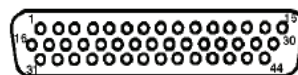
DIMENSIONS



CONNECTORS

Signal Connector J4

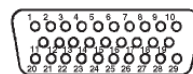
44 pin Male Hi-Density D-Sub
Mating connector



Positronic # ODD44M5B100V5X
Positronic # DD44S10JVLX

Power Connector J5

29 pin Male Standard Density D-Sub
Mating connector



Positronic # MD29M5B100V5X
Positronic # RD29S10JVLX