APOGEE LABS

MODEL AL2273-303
16-CHANNEL ANALOG INPUT MODULE

1   FEATURES

➢ **High Signal Density with 16 Inputs per Card**

➢ **Industry-Standard BNC Connectors**

➢ **650kHz Analog Bandwidth**

➢ **On-board BERT for System Self-Test**

➢ **Supports AL2273 Standard Hot-Swapping**

➢ **Single Height AL2273 Input Module**

2   PURPOSE

The AL2273-303 16 Channel Analog Input Module is an input card for use with the AL2273 Digital Matrix Switch that supports analog signals with a bandwidth of DC to 650kHz. The AL2273-303 is intended to be used in the same chassis with the AL2273-403 16 Channel Analog Output card to create a non-blocking analog signal switch that can share the same chassis with TTL and RS422 signals. The card supports hot-swapping during normal operation to reduce system downtime, and incorporates a BERT function for system self-test.

3 SPECIFICATIONS

3.1 ANALOG INPUTS
- 16 Single-ended non-isolated Inputs
- Nominal Input Impedance : 600 Ω or 10K Ω
- BNC Input Connectors
- Input Bandwidth: DC to 650kHz
- Overvoltage Protection[1] : ±15V
- Input Voltage Range: ±10V

3.2 TIMING PERFORMANCE
- Any Channel Pair Propagation Delay Mismatch[2] : < 250ns
- Maximum Propagation Delay[2] : 2μs

3.3 GENERAL
- Max. Power Consumption: 10W
- Operating Temperature: 0 ℃ to 50 ℃
- Relative Humidity: 0 to 95%, Non-Condensing
- Chassis Slot Requirement: Single

Notes:
(1) Rated for continuous fault condition
(2) Measured from input connector to output connector using AL2273-403 Output Card

4 INSTALLATION

The AL2273-303 module is a one slot wide AL2273 module. This module may be placed in any of the input slots in the AL2273 chassis. Signal connections are made using the BNC connectors labeled J1 through J16 on the card's edge panel.
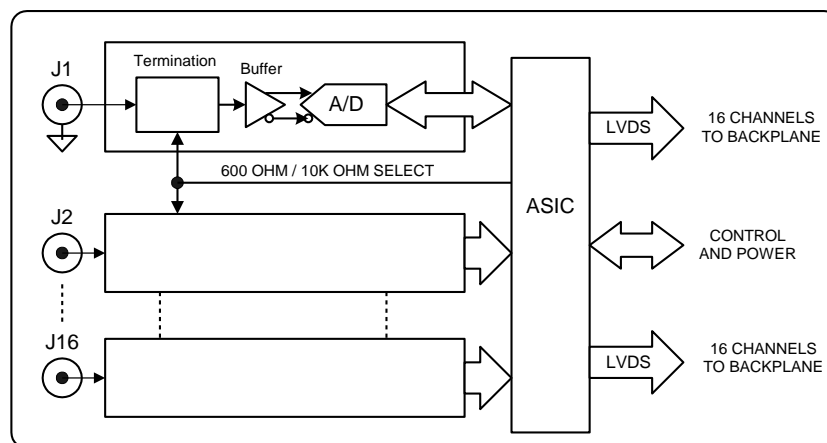

Figure 1 Model AL2273-303 Input Card Block Diagram

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