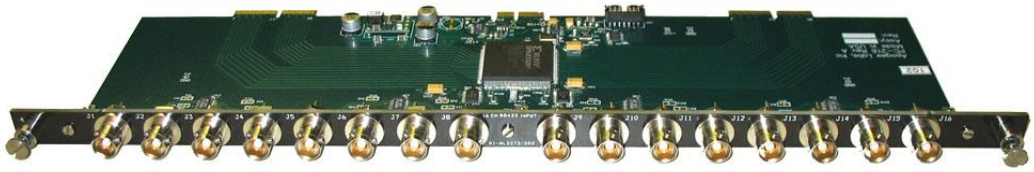
APOGEE LABS

MODEL AL2273-302

16 CHANNEL RS422 INPUT MODULE



1 FEATURES

- **High Signal Density with 16 RS422 Inputs per Card**
- **Industry-Standard Triax Connectors**
- **Maximum 30Mbps Operation**
- **On-board BERT for System Self-Test**
- **Supports AL2273 Standard Hot-Swapping**
- **Single Height AL2273 Input Module**

2 PURPOSE

The AL2273-302 16 Channel RS422 Input Module is an input card for use with the AL2273 Digital Matrix Switch that allows industry-standard RS422 input signal support up to 30Mbps. 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 RS422 INPUTS

- 16 Inputs, RS422 Compatible
- Differential Input Impedance[1] : 100 Ω
- Triax Input Connectors[2]
- Maximum Bit Rate: 30Mbps[5]
- Overvoltage Protection[3] : +/-14V
- Minimum Differential Input Threshold Voltage: +/-0.4V
- Input CM Voltage Range: -7V to +12V

3.2 TIMING PERFORMANCE

- Adjacent Channel Pair Propagation Delay Mismatch[4] : < 5ns
- Any Channel Pair Propagation Delay Mismatch[4] : < 10ns
- Maximum Propagation Delay[4] : < 15ns

3.3 GENERAL

- Power Consumption: 15W
- Operating Temperature: 0 ºC to 50 ºC
- Relative Humidity: 0 to 95%, Non-Condensing
- Chassis Slot Requirement: Single

Notes:

(1) Standard RS422 termination is 100Ω, floating resistive load
(2) Connector is a Trompeter BJ770GL
(3) Rated for continuous fault condition
(4) Measured from input connector to backplane connector terminated in 100Ω
(5) V_{ID} = 2V, NRZ-L