

**MODEL AL2273-301LV****16-CHANNEL TTL
INPUT MODULE****1 FEATURES**

- **High Signal Density with 16 Low Voltage TTL Inputs per Card**
- **Industry-Standard BNC Connectors**
- **Maximum 40Mbps Operation**
- **On-board BERT for System Self-Test**
- **Supports AL2273 Standard Hot-Swapping**
- **Single Height AL2273 Input Module**

2 PURPOSE

The AL2273-301LV 16-Channel TTL Input Module is an input card for use with the AL2273 Digital Matrix Switch that allows industry-standard TTL input signal support up to 40Mbps. 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 TTL INPUTS

- 16 Inputs, TTL Compatible
- Single ended Input Impedance¹ : 50/75 Ω
- BNC Input Connectors
- Maximum Bit Rate: 40Mbps
- Overvoltage Protection² : +6.0Volts
- Typical Input Threshold : +1.3 Volts

3.2 TIMING PERFORMANCE

- Adjacent Channel Pair Propagation Delay Mismatch³⁻⁴ : < 5ns
- Any Channel Pair Propagation Delay Mismatch³⁻⁴ : < 10ns
- Maximum Propagation Delay³⁻⁴ : < 60ns

3.3 GENERAL

- Power Consumption: 12W
- Operating Temperature: 0 °C to 50 °C
- Relative Humidity: 0 to 95%, Non-Condensing
- Chassis Slot Requirement: Single

Notes:

- (1) Termination is jumper selectable.
- (2) Rated for continuous fault condition
- (3) Measured from input connector to backplane connector terminated in 100 Ω
- (4) $V_1 = 2V$, NRZ-L

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