

**MODEL AL2273-402** 

16 CHANNEL RS422 OUTPUT MODULE



# 1 FEATURES

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

## 2 PURPOSE

The AL2273-402 16 Channel RS422 Output Module is an output card for use with the AL2273 Digital Matrix Switch that allows industry-standard RS422 output 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.

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## 3 **SPECIFICATIONS**

#### **3.1 RS422 OUTPUTS**

- 16 Outputs, RS422 Compatible
- Expected Differential Load Impedance<sup>1</sup>:  $100 \Omega$
- Triax Output Connectors<sup>2</sup>
- Maximum Bit Rate: 30Mbps<sup>6</sup>
- Output Short Circuit Protection<sup>3</sup>
- Minimum Differential Output Voltage<sup>1</sup>: 2.0V

### 3.2 TIMING PERFORMANCE

- Adjacent Channel Pair Propagation Delay Mismatch<sup>4</sup>: < 5ns
- Any Channel Pair Propagation Delay Mismatch<sup>4</sup>: < 10ns
- Maximum Propagation Delay<sup>4</sup>: < 15ns

#### 3.3 GENERAL

- Power Consumption: 15W<sup>5</sup>
- Operating Temperature: 0 °C to 50 °C
- Relative Humidity: 0 to 95%, Non-Condensing
- Chassis Slot Requirement: Single

#### **Notes:**

- (1) Standard RS422 termination is  $100\Omega$ , floating resistive load
- (2) Connector is a Trompeter BJ770GL
- (3) Rated for continuous fault condition
- (4) Measured from differential LVDS pair on backplane connector to output terminated in  $100\Omega$
- (5) Rated with all outputs driving  $100\Omega$  load at 30MHz, 50% duty cycle
- (6) Specified NRZ-L

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