Automation/Drive Interface (ADI) Connector

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Introduction

- Tape libraries and drives communicate via internal serial cables

- Library monitors drive state, commands eject, etc.

- Proprietary protocols, connectors, etc.

- T10 Automation/Drive Interface working group is now working on command and transport/physical protocols (ADC, ADT)

- We need a connector!

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History

- HP used a 9-pin JST part on LTO generation 1

- HP & Seagate use it on LTO generation 2

- Molex makes parts that intermate

- ADT draft standard needs to refer to a standard, rather than a manufacturer's part number

- ADI working group approved 10-pin version

- Molex and JST are interested

Characteristics

- RS-422 at up to 115,200 bps

- TTL or 3.3V signals

- This is specified in the ADT draft standard

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Connector Standard Requirements

- Only mating parts needed, not a cable

- Mount parallel or perpendicular to circuit board

- No requirement for surface mount, through-hole, etc.

- No form factor requirements

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