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!
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
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