



Extending the SCSI Platform of Innovation



August 22, 2012

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SCSI/SAS – Looking to the Future




- 12Gb/s, 24Gb/s SAS
- Extended Copy Feature
- Power Limit Control - up to 25W SAS devices
- Atomic Writes
- Hinting & other NVM features
- SCSI Express

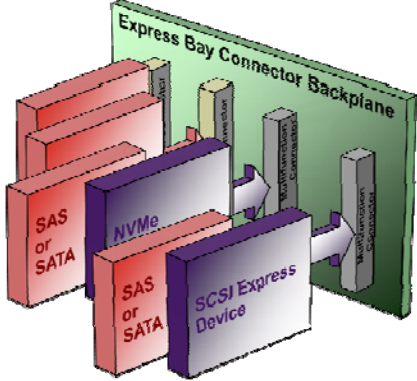


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Express Bay



SCSI Trade Association




Express Bay


- Up to 25 Watts
- SFF-8639 connector
- PCI-SIG electrical specification

Objectives

- Preserve the enterprise storage experience for PCI Express storage
- Meet SSD performance demands
- Serviceable, hot-pluggable Express Bay opens up new possibilities...



SCSI Express Summary





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Proven SCSI protocol combined with PCIe creating an industry standard path to PCIe-based storage

- Enterprise storage for PCIe based storage devices
- Increased performance through lower latency
- Coexistence with SAS via Express Bay and common command set
- Unified management and programming interface

STA Member Companies





SCSI Express Components



Existing industry initiatives delivering enterprise storage using PCI Express

Technology	Description
SCSI	The storage command set
SCSI Over PCIe (SOP)	Packages SCSI for a PQI queuing layer
PCIe Queuing Interface (PQI)	Flexible, high-performance queuing layer
Express Bay connector (SFF 8639)	Accommodates PCIe, SAS, and SATA drives
PCI Express	Leading server I/O interconnect

