

SERIAL-ATTACHED SCSI PERIPHERAL COMPONENT INTERCONNECT EXPRESS (SAS-PCI EXPRESS)



HIGH SPEED DESIGN WITH FLEXIBILITIES

FCI's 68-position, SAS PCIe receptacle and plug connectors enables implementation of high speed Serial Attached SCSI (SAS) hard disk drive (HDD) interface as well as Peripheral Component Express (PCIe) based devices.

- Capable of meeting 12Gb/s HDDs or PCIe based devices at 8Gb/s
- Molded guide post allows device plug and receptacle to self-align during mating process
- Compatible to SFF8482 (3Gb/s), 6Gb/s SAS and SATA connectors.



TARGET MARKETS



FEATURES

- High speed storage interfaces
- 68-position SAS PCIe connectors enable SFF8482, SFF8680 and SFF8639 interface
- Support up to 4 ports PCIe based devices
- Wide range of SAS PCIe plug and receptacle connectors
- Superior design for easy, reliable mating
- RoHS, halogen-free and compatible with lead-free processing temperatures
- Developed in accordance with SFF8482 and SFF8680 (SAS 3.0)
- Compatible with SATA and SAS HDDs

BENEFITS

- Up to 12Gb/s
- Implementation of High-speed Serial Attached SCSI (SAS) hard disk drive (HDD)
- Improves performance and faster file transfers.
- Meets various enterprise applications
- Designed to support hot-plugging and blind mating of HDDs
- Meets environmental requirements
- Allows compatibility between unshielded dual and multi port
- Dual support capabilities



► SERIAL-ATTACHED SCSI PERIPHERAL COMPONENT INTERCONNECT EXPRESS (SAS-PCI EXPRESS)

TECHNICAL INFORMATION

MATERIAL

- Contact Base Metal: Copper Alloy
- Contact Area Plating: Gold over Nickel
- Solder Tail Plating: Tin over Nickel
- Retainer Clip Base Metal: Copper Alloy
- Retainer Plating: Tin over Nickel
- Housing: Halogen-free High Temperature Thermoplastic (UL94V-0)
- Housing Color: Black

MECHANICAL PERFORMANCE

- Durability: 500 mating cycles
- Mating Force: 59N max.
- Unmating Force: 12N min.

PACKAGING

- Tray
- Tape and reel

ELECTRICAL PERFORMANCE

- Contact Resistance: 30mΩ max. for signal contacts. Per EIA 364-23
- Current Rating: 1.5A min. per contact with temperature rise not exceeding 30°C (power pins only: P1-P15). Per EIA 364-70B
- Insulation Resistance: 1000MΩ min. per EIA 364-21

ENVIRONMENTAL

- Humidity: 96 hours at 40°C with 90-95% relative humidity. Per EIA 364-31, method II, test condition A
- Temperature Life: 85°C for 500 hours. Per EIA 364-17, test condition III, method A
- Thermal Shock: 10 cycles between -55°C to +85°C. Per EIA 364-32, test condition I
- Mixed Flow Gas: Expose ½ samples unmated for 7 days and then mated for 7 additional days; the other ½ samples are exposed mated for 14 days. Per EIA 364-65, class II A

SPECIFICATIONS

- Product Specification: GS-12-282
- Industry Specification: SFF-8639

TARGET MARKETS/APPLICATIONS



Processor and Storage Blade
Mezzanine Card



Server
Server and Storage Blade
External Storage System
HDD
HDD Carrier
SSD Drive

► SERIAL-ATTACHED SCSI PERIPHERAL COMPONENT INTERCONNECT EXPRESS (SAS-PCI EXPRESS)

SAS PCIe RECEPTACLES

Performance	Base Number	Termination Type	Retainers			Other Features
			SMT	Forklock	Locators	
12Gb/s	10120513	SMT	√		√	Vertical

SAS PCIe PLUG

Performance	Base Number	Termination Type	Retainers			Other Features
			SMT	Forklock	Locators	
12Gb/s	10123699	SMT	√		√	Vertical
12Gb/s	10132583	Straddle Mount				Right Angle

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[FCI / Amphenol:](#)

[10120513-002C-TRLF](#) [10132583-001LF](#) [10139340-001C-TRLF](#) [10123699-002C-TRLF](#)