



**THE DATASHEET OF  
10132583-001LF**



# 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

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## 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    |

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