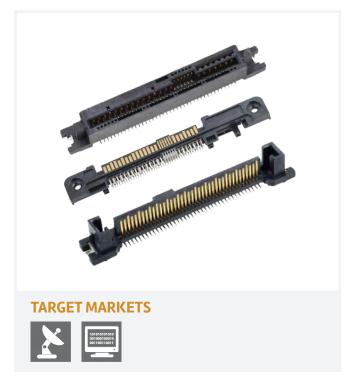
# SERIAL-ATTACHED SCSI PERIPHERAL COMPONENT INTERCONNECT EXPRESS (SAS-PCI EXPRESS)

# 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 PCle 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.



FEATURES	BENEFITS
<ul> <li>High speed storage interfaces</li> </ul>	• Up to 12Gb/s
<ul> <li>68-position SAS PCIe connectors enable SFF8482, SFF8680 and SFF8639 interface</li> </ul>	<ul> <li>Implementation of High-speed Serial Attached SCSI (SAS) hard disk drive (HDD)</li> </ul>
<ul> <li>Support up to 4 ports PCIe based devices</li> </ul>	<ul> <li>Improves performance and faster file transfers.</li> </ul>
<ul> <li>Wide range of SAS PCIe plug and receptacle connectors</li> </ul>	<ul> <li>Meets various enterprise applications</li> </ul>
<ul> <li>Superior design for easy, reliable mating</li> </ul>	<ul> <li>Designed to support hot-plugging and blind mating of HDDs</li> </ul>
<ul> <li>RoHS, halogen-free and compatible with lead-free processing temperatures</li> </ul>	<ul> <li>Meets environmental requirements</li> </ul>
<ul> <li>Developed in accordance with SFF8482 and SFF8680 (SAS 3.0)</li> </ul>	<ul> <li>Allows compatibility between unshielded dual and multi port</li> </ul>
<ul> <li>Compatible with SATA and SAS HDDs</li> </ul>	<ul> <li>Dual support capabilities</li> </ul>

### 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 temperaturerise not exceeding 30°C (power pins only: P1-P15). Per EIA 364-70B
- Insulation Resistance: 1000M $\Omega$  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**

		Termination	Retainers			
Performance	Base Number	Туре	SMT	Forklock	Locators	Other Features
12Gb/s	10120513	SMT	$\checkmark$		$\checkmark$	Vertical

## **SAS PCIe PLUG**

Deufermenne	Desc Nevel en	Termination Type	Retainers			
Performance	Base Number		SMT	Forklock	Locators	Other Features
12Gb/s	10123699	SMT	$\checkmark$		$\checkmark$	Vertical
12Gb/s	10132583	Straddle Mount				Right Angle

## **Mouser Electronics**

Authorized Distributor

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10120513-002C-TRLF 10132583-001LF 10139340-001C-TRLF 10123699-002C-TRLF