

## External MiniSAS-HD I/O Connector(12G)



### OVERVIEW

Luxshare-TECH's MiniSAS-HD external I/O connector is designed for high density-high speed IO interconnection. The external MiniSAS-HD interface supports 12Gbps per lane for SAS3.0 application and 8Gbps per lane for PCIe3.0 application. Luxshare-TECH offers 1x1(4x), 1x2(8x), and 1x4(16x) configuration for the interconnection between server and storage, or AI architecture etc.

### FEATURES & BENEFITS

- Provide 1x1(4x), 1x2(8x), 1x4(16x) configuration
- Adopted in the external interconnection between devices based SAS3.0 and PCIe3.0 protocol
- 92Ohm impedance design which can compatible both SAS and PCIe
- Supports up to a maximum of 5 meter lengths for passive cable

### PRODUCT APPLICATIONS

Data center & Networking Equipment  
SAS/SATA HBA interfaces  
Servers/Storage Devices  
Switches/Routers  
AI architecture  
RAID systems

### INDUSTRY STANDARDS

SFF-8644

## TECHNICAL INFORMATION

### MATERIAL

#### Connector

Contact Base Metal: Copper Alloy  
Contact Area Finish: Gold over Nickel  
Housing: High temperature thermoplastic(UL 94V-0)

#### Cage

Shield Assembly: Nickel sliver copper alloy, nickel under plating all over  
EMI Spring: Copper alloy, nickel under plating all over  
Threaded nut: Brass, nickel under plating all over

### ELECTRICAL PERFORMANCE

Voltage: 30V AC(RMS)/DC MAX  
Current: 0.5A MAX per contact

### ENVIRONMENTAL

Operating temperature : +80°C MAX  
Non-operating temperature : -55°C TO +80°C

### MECHANICAL PERFORMANCE

Rated Durability Cycles 250  
Mating Force: 1.66N/pin MAX  
Unmating Force: 0.83N/pin MIN

### PACKAGING

Tray

### SPECIFICATION

ES-11-00-0013

### Partial PN Table

Product Numbers	Product Description
PMSB36-1300-000-0H	MiniSAS-HD Conn.1x1 12G,R/A,30u" Au,HF
PMSB72-1300-000-0H	MiniSAS-HD Conn.1x2 12G,R/A,30u" Au,HF
PMSBA3-1300-000-0H	MiniSAS-HD Conn.1x4 12G,R/A,30u" Au,HF