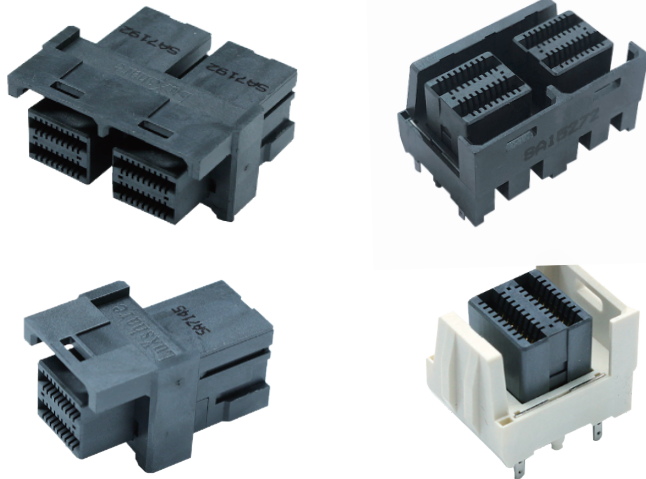


## Internal MiniSAS-HD Connector(12G)

### OVERVIEW

MiniSAS-HD High Density connector system is the next generation SAS system that provides faster data rates and more bandwidth. The interface also can be adopted to the SAS and PCIe standards. It provides double density interface against the current MiniSAS connectors with 1x1(4x), 1x2(8x), 1x4(16x) ports available. Luxshare-TECH provides full range of product profile including vertical and right angle types with press-fit application.

Luxshare-TECH's MiniSAS-HD series could support SAS4.0(24Gbps), SAS3.0(12Gbps), PCIe4.0(16Gbps) and PCIe3.0(8Gbps) interconnection together with the corresponding internal cable.



### FEATURES & BENEFITS

- ◆ Full compliant with SFF-8643 specification
- ◆ High density high speed
- ◆ 1x1(4x), 1x2(8x) and 1x4(16x) port options & vertical、Right angle type options
- ◆ Provide 4 high speed channel per port
- ◆ 0.75mm contact pitch and 30% smaller than MiniSAS
- ◆ 92Ohm impedance design which can compatible both SAS and PCIe
- ◆ Supports projected SAS 3.0 performance

### PRODUCT APPLICATIONS

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

### INDUSTRY STANDARDS

SFF-8643

# Internal MiniSAS-HD Connector(12G)

## TECHNICAL INFORMATION

### MATERIAL

Contact Base Metal: Copper Alloy  
Contact Area Finish: Gold over Nickel  
Press-Fit Area: Matte Tin over Nickel  
Board lock: Stainless steel  
Housing: High temperature thermoplastic(UL 94V-0)

### ELECTRICAL PERFORMANCE

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

### ENVIRONMENTAL

Operating temperature : 20°C TO +65°C  
Storage temperature : -55°C TO +80°C

### Partial PN Table

Product Numbers	Product Description
PMSB36-1300-000-0H	MiniSAS-HD Conn.1x1 12G,R/A,P-F,30u" Au,HF
PMSB72-1300-000-0H	MiniSAS-HD Conn.1x2 12G,R/A,P-F,30u" Au,HF
PMSBA3-1300-000-0H	MiniSAS-HD Conn.1x4 12G,R/A,P-F,30u" Au,HF
PMS075-3633-TKX-1H	MiniSAS-HD V/T RECEPTACLE 0.75 PITCH ,SMT TYPE,1X1 1 WALL
PMS075-3633-TAX-1H	MiniSAS-HD V/T RECEPTACLE 0.75 PITCH ,SMT TYPE 1X1 2 WALL
PMS075-3633-TCX-1H	MiniSAS-HD V/T RECEPTACLE 0.75 PITCH ,SMT TYPE 1X2 2 WALL
PMS075-3633-TEX-1H	MiniSAS-HD V/T RECEPTACLE 0.75 PITCH ,SMT TYPE,1X1 4 WALL
PMS075-3633-TGX-1H	MiniSAS-HD V/T RECEPTACLE 0.75 PITCH ,SMT TYPE 1X2 4 WALL
PMS075-3653-RAX-1H	MiniSAS-HD R/A RECEPTACLE 0.75 PITCH, 1X1, Hybird-2 Type
PMS075-3643-RBX-1H	MiniSAS-HD R/A RECEPTACLE 0.75 PITCH, 1X2, Hybird-2 Type
PMS075-3643-RCX-1H	MiniSAS-HD R/A RECEPTACLE 0.75 PITCH, 1X1, SMT Type, BL 3.40MM
PMS075-3653-RSX-1H	MiniSAS-HD R/A RECEPTACLE 0.75 PITCH, 1X1, Hybrid-2 with Shell Type

### MECHANICAL PERFORMANCE

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

### PACKAGING

Tray

### SPECIFICATION

ES-11-00-0009  
ES-11-00-0010  
ES-11-00-0011  
ES-11-00-0012  
ES-11-00-0014