

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 SAS 4.0(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

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

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

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 RITCH, 1X1, Hybrid-2 Type
PMS075-3643-RBX-1H	MiniSAS-HD R/A RECEPTACLE 0.75 RITCH, 1X2, Hybrid-2 Type
PMS075-3643-RCX-1H	MiniSAS-HD R/A RECEPTACLE 0.75 RITCH, 1X1, SMT Type, BL 3.40MM
PMS075-3653-RSX-1H	MiniSAS-HD R/A RECEPTACLE 0.75 RITCH, 1X1, Hybrid-2 with Shell Type