

Mini-SAS HD

Amphenol ICC's Mini-SAS High Density receptacle is the next generation SAS system; the SAS 2.1 standard meets SAS-3 next generation speed and density requirements that provides faster data transmission and more bandwidth for end users. The low-profile system provides 4X and 8X cable-plug options, and the external I/O connectors include eight sideband signals per 4X port, 1x4 configuration for up to 192Gb/s of total bandwidth. Mini-SAS HD is designed to save space with its increased density and reduced size as compared to the Mini-SAS 2.0, while following complacency with the standard. The Mini-SAS HD connector system has a 2-row, right angle connector with data rates reaching 12Gb/s per channel. Mini-SAS HD can support up to 24G per channel and can meet SAS-4 and PCIe Gen4/5.



TARGET MARKETS



TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic
- Contacts Base Material: Phosphor Bronze
- Plating Solder Tails: Matte tin or Gold flash options
- Plating Mating Area: Gold

MECHANICAL PERFORMANCE

- Durability: 250 mating cycles
- Mating Force: 62 N max.
- Contact Normal Force: 50 grams min.
- PCB Thickness (Cage): 3.00 mm (0.118in.) min.
- Unmating Force (Cage): 30 N max.

ELECTRICAL PERFORMANCE

- Operating Voltage: 30 VDC per contact
- Operating Current: 0.5 A per contact
- Differential Impedance: 100Ω +/- 10Ω

ENVIRONMENTAL

- Operating and (Storage) Temperature: -40°C to +85°C
- RoHS & Halogen-Free

TOOLING INFORMATION

- Configurations: 1X1, 1X2, 1X4

TARGET MARKETS/APPLICATIONS



Blade Server
Patch Panels
RAID
Rack-mount server
Router
Servers
Storage Rack
Workstation

PART NUMBER SELECTOR

Mini-SAS HD Combo (Cage/Connector)

