

Mini-SAS HD

Product Description

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 includes eight sideband signals per 4X port, 1x4 configuration for up to 192 Gbps 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. Mini-SAS HD connector system has a 2-row, right angle connector with data rates reaching 12 Gbps per channel. Mini-SAS HD can up to 24Gps per channel and can meet SAS-4 and PCIe Gen4/5.

| Applications | | | SFF Supported Standards |
|-------------------|---------------|--------------|-------------------------------|
| RAID | Router/Switch | Blade server | Connector Cage Combo SFF-8614 |
| Workstations | Patch panels | Servers | |
| Rack-mount server | Routers | Storage rack | |

| Product Specifications - Mini-SAS HD | | | |
|---|--|-----------------------|-------------------------|
| CONNECTOR | | CAGE | |
| Materials Specifications | | | |
| Housing | Black color, Glass reinforced , Lead Free Solder Reflow, Process Compatible Thermo Plastic | PCB Thickness | 3.00 mm (0.118in.) min. |
| Contacts Base Material | Phosphor Bronze | | |
| Contact Normal Force | 50 grams Minimum | | |
| Plating Press-Fit Area | Matte tin or Gold flash options | | |
| Plating Mating Area | Gold | | |
| Operating Temperature | -40°C to +85°C | | |
| Electrical Specifications | | | |
| Operating Voltage | 30 VDC per contact | | |
| Operating Current | 0.5 A per contact | | |
| Differential impedance | 100 Ω +/- 10 Ω | | |
| Mechanical Specifications | | | |
| Mating Force | 62 N max. | Unmating Force | 30 N max. |
| Durability | 250 mating cycles | | |
| Options | | | |
| Packaging | Tray | | |
| Configurations | 1X1, 1X2, 1X4 | | |
| Environmental Specifications Options | | | |
| RoHS | Yes | | |
| Halogen Free | Yes | | |
| Flammability Rating | UL 94V-0 | | |



Ordering Information

Mini-SAS HD Combo (Cage/Connector)

| U92 | X | X | X | X | 1 | X | X | X | X | X | | |
|------------|--|---|---|---|---|---|---|---|---|--|--|---|
| U92 | SERIES DESIGNATION | | | | | | | | | MOUNTING SCREWS | X | |
| A | STYLE A - One Row Cage 0° M - Single level 0° (24 Gbps) | | | | | | | | | 0 - No Screws 1 - Mounting Screws (Standard Length of M2 X 0,4, 4,3 Long) | | |
| X | NUMBER OF PORTS IN ROW 1 - 1x1 2 - 1x2 4 - 1x4 | | | | | | | | | CONTACT PLATING 3 - Mating Area Plating 30 μ" (0.76 μm) Gold Over 50 μ" (1.27 μm) to 150 μ" (3.81 μm) of Nickel; Press-Fit Tail Area Plating 15 μ" (0.38 μm) to 60 μ" (1.52 μm) of Matte Tin Over 50 μ" (1.27 μm) to 150 μ" (3.81 μm) of Nickel 7 - Same As "3"; But with Enhanced Chicklet | X | |
| X | HEAT SINK OPTION 1 - No Heat Sink and No Clip | | | | | | | | | PACKAGING 1 - Tray T - Tape & Reel A - Tray - Heat Sink & Clip or Light Pipe Ship Assembled | X | |
| X | EMI SHIELDING 0 - Standard EMI Fingers 1 - Extended EMI Fingers | | | | | | | | | LIGHT PIPE OPTION 0 - No Light Pipe 2 - 2 Round Light Pipes per port, on Top of the Cage | X | |
| | | | | | | | | | | | OPTIONAL DUST COVER 0 - Without Dust Cover D - With Dust Cover (Ship Loose) | X |
| | | | | | | | | | | | PLATING 1 - Nickel | 1 |



Order Information:

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Product Applications; List represents common uses for the product but is not limited to these uses.

