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		
RAID	Router/Switch	Blade server
Workstations	Patch panels	Servers
Rack-mount server	Routers	Storage rack

SFF Supported Standards
Connector Cage Combo SFF-8614

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℃ to +85℃		
Electrical Specifications			
Operating Voltage	30 VDC per contact		
Operating Current	0.5 A per contact		
Differential impendance	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**

A	**STYLE**
	A -One Row Cage 0°
	M - Single level 0° (24 Gbps)

X	**NUMBER OF PORTS IN ROW**
	1 - 1x1
	2 - 1x2
	4 - 1x4

X	**HEAT SINK OPTION**
	1 - No Heat Sink and No Clip

X	**EMI SHIELDING**
	0 - Standard EMI Fingers
	1 - Extended EMI Fingers

MOUNTING SCREWS	X
0 - No Screws	
1 - Mounting Screws (Standard Length of M2 X 0.4, 4.3 Long)	

CONTACT PLATING	X
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	

PACKAGING	X
1 - Tray	
T - Tape & Reel	
A - Tray - Heat Sink & Clip or Light Pipe Ship Assembled	

LIGHT PIPE OPTION	X
0 - No Light Pipe	
2 - 2 Round Light Pipes per port, on Top of the Cage	

OPTIONAL DUST COVER	X
0 - Without Dust Cover	
D - With Dust Cover (Ship Loose)	

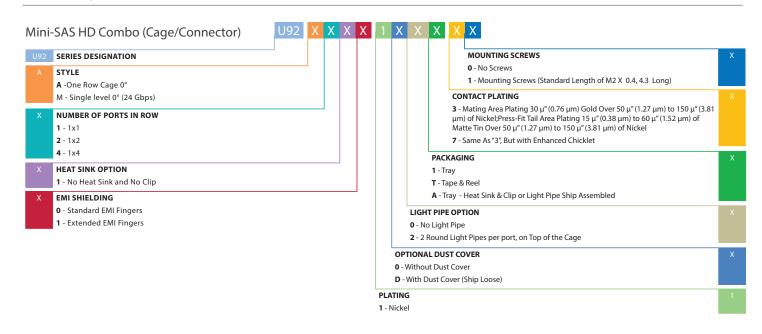| **PLATING**	1
1 - Nickel	

Amphenol®
High Speed Interconnects

Order Information:

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For more information consult factory or visit amphenol-highspeed.com

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