## 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

<b>Product Specifications - Mini-SAS</b>	HD								
	CAGE								
	Materials Specifications								
Housing	Black color, Glass reinforced , Lead Free Solder Reflow, Process Compatible Thermo Plastic	PCB Thickness 3.00 mm (0.118in.) mi							
<b>Contacts Base Material</b>	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 impendance	100 Ω +/- 10 Ω								
	Mechanical Specifications								
Mating Force	62 N max.	<b>Unmating Force</b>	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	Х	XX	Х	1	Х	Х	Х	XX
U92	SERIES DESIGNATION									MOUNTING SCREWS X
А	STYLE		·							0 - No Screws
	A -One Row Cage 0°									1 - Mounting Screws (Standard Length of M2 X 0.4, 4.3 Long)
	M - Single level 0° (24 Gbps)									CONTACT PLATING X
Х	NUMBER OF PORTS IN ROW 1 - 1x1									<b>3</b> - Mating Area Plating 30 μ <sup>r</sup> (0.76 μm) Gold Over 50 μ <sup>r</sup> (1.27 μm) to 150 μ <sup>r</sup> (3.81 μm) of Nickel;Press-Fit Tail Area Plating 15 μ <sup>r</sup> (0.38 μm) to 60 μ <sup>r</sup> (1.52 μm) of Matte Tin Over 50 μ <sup>r</sup> (1.27 μm) to 150 μ <sup>r</sup> (3.81 μm) of Nickel
	<b>2</b> - 1x2									7 - Same As "3", But with Enhanced Chicklet
	<b>4</b> - 1x4								PAC	KAGING X
Х	HEAT SINK OPTION								<b>1</b> - Tr	ray
	1 - No Heat Sink and No Clip								<b>T</b> - Ta	ape & Reel
Х	EMI SHIELDING								<b>A</b> - Ti	ray - Heat Sink & Clip or Light Pipe Ship Assembled
	0 - Standard EMI Fingers							LIGH		E OPTION X
	1 - Extended EMI Fingers							<b>0</b> - No	b Light	t Pipe
								<b>2</b> - 2 F	Round	Light Pipes per port, on Top of the Cage
							OPT		LDUS	ST COVER X
							<b>0</b> - V	Vithou	ıt Dus	t Cover
	D - With Dust Cover (Ship Loose)						over (Ship Loose)			
PLATING					1					

1 - Nickel



Order Information: P: 416.291.4401 | F: 416.292.0647 | E: cages@amphenol-highspeed.com For more information consult factory or visit <u>amphenol-highspeed.com</u> Product Applications; List represents common uses for the product but is not limited to these uses.



## **Mouser Electronics**

Authorized Distributor

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Amphenol:

<u>U92-L116-1001-70</u> <u>U92-2100-8000-BP</u> <u>U92-L411-102A-70</u> <u>U92-L416-1001-70</u> <u>U92-L411-1001-70</u> <u>U92-L216-1001-</u> 70 U92-L111-102A-70 U92-L211-1001-70 U92-L211-102A-70