# Ultraport Slim**S∧S**™

## AHSI®

#### Characteristics

- Ultraport SlimSAS<sup>™</sup> addresses issues in next generation storage devices such as bulk cable, form factor restrictions and the introduction of multi-lane storage devices
- Compliant with T10/Serial Attached SCSI (SAS-4) standard and also attuned with all known protocols
- 38 or 74 position, 0.6 mm pitch receptacle designed per the SFF-8654 specification for unshielded I/O connectors
- Consumes the same area as the Mini-SAS
- Increased signal integrity performance
- Allows internal/external system strategy and flexibility
- Increased high speed density
- Ribbon cable friendly interface with various assembly options
- RoHS Compliant and Halogen Free
- High-speed upper and lower contacts
- Over-molded contact design and PCB locating posts

#### **Product Applications**

- Servers
- Switches
- Routers
- Data Center
- Storage Racks
- Storage Controllers
- HBA (Host Bus Adapter) Servers
- RAIDS Redundant Array of Individual Disks

#### Configurations

- 4X Right Angle
- 4X Vertical
- 6X Right Angle
- 6X Vertical
- 8X Right Angle
- 8X Vertical
- 12X Right Angle
- 12X Vertical

<b>Product Specifications - Ultraport Slin</b>	nSAS™						
Materials							
Housing	Black color, Glass reinforced , Lead Free Solder Reflow Process Com- patible Thermo Plastic, UL94V-0 Rated						
Contacts Base Material	High Performance Copper Alloy						
Contact Normal Force	50g Nominal						
Plating Mating Area	30 μ" (0.76 μm) min Gold over 50 μ" (1.27 μm) min Nickel						
Plating Solder Tails	100 μ" (2.54 μm) min Tin, over 50 μ" (1.27 μm) min Nickel						
<b>Resonance Dampening Feature</b>	Conductive Polymer						
Electrical Characteristics							
Maximum Voltage	30V/Contact						
Maximum Current	0.5A per contact						
LLCR	80 mΩ Maximum						
Insulation Resistance	1000 M $\Omega$ at 100V DC for 60 seconds						
DWV	300V minimum DC for 60 seconds.						
Differential imperdance	85Ω						
Mechanical Characteristics							
Latch Retention Force	50N Min						
<b>Connector Insertion Force</b>	55.5N Max						
<b>Connector Withdrawal Force</b>	49N Max						
Durability	250 Mating Cycle Min						
Options							
Resonance Dampening Feature for SAS-3	N/A						
Latch Internal Plug Retention	SMT/Pin-In-Hole Options Available						



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### Ordering Information

U10	SERIES DESIGNATION			0	XX	Х	Х			
X	STYLE							PACKAGING T - Tape & Reel	Т	
	A - 8X Right Angle									
	B - 8X Vertical							OPTION 1	х	
	C - 4X Right Angle							0 - Standard		
	D - 4X Vertical							1 - No Resonance Dampening		
	J - 12X Right Angle							A - Offset Latch Pins		
	K - 12X Vertical					LATCH ANCHOR OPTION - RIGHT ANGLE X				
	L - 6X Right Angle					<b>0</b> - Pin 1.5mm long Pin, Right Angle				
	M - 6X Vertical					1 - SMT				
0	IMPEDANCE						<b>3</b> - No	atch		
Ŭ	0 - 85 Ohm						4 - Pin 2.2mm long Pin, Right Angle			
							<b>5</b> - Pin	in 3.0mm long Pin, Right Angle		
XX	UMBER OF POSITIONS					6 - Pin 4.2mm long Pin, Right Angle				
	<b>38</b> - 38 Pins						LATCH	ANCHOR OPTION - VERTICAL	x	
	<b>74</b> - 74 Pins				<b>0</b> - Pin 1.5mm long, Pin inside footprint on Vertical					
							<b>1</b> - SM	· · · · · · · · · · · · · · · · · · ·		
							<b>2</b> - Pin	1.5mm long, Pin outside footprint (Vertical Only)		
							<b>3</b> - No	atch		
							<b>4</b> - Pin	2.2mm long, Pin outside footprint on Vertical		
							<b>5</b> - Pin	3.0mm long, Pin outside footprint on Vertical		
							<b>6</b> - Pin	4.2mm long, Pin outside footprint on Vertical		
							<b>7</b> - Pin	2.2mm long, Pin inside footprint on Vertical		
							<b>8</b> - Pin	3.0mm long, Pin inside footprint on Vertical		
							<b>9</b> - Pin	4.2mm long, Pin inside footprint on Vertical		
						CONT	ACT PLA	TING	x	
					<b>2</b> - 30	<b>2</b> - 30 μ" (0.76 μm) Gold Plating over Nickel				
						<b>3</b> - 15	<b>3</b> - 15 μ" (0.38 μm) Gold Plating over 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.

