



**THE DATASHEET OF  
U10BH7425101T**



# SlimSAS™ Connectors – U10 Series

## PROVEN, HIGH SPEED, NEXT-GENERATION SAS-4 INTERFACE

SlimSAS™ connectors address issues in next-generation storage devices such as bulk cable form factor restrictions and the introduction of multi-lane storage devices.

SlimSAS™ connector is a 0.60mm pitch interconnect system which offers superior signal integrity performance over standard Mini-SAS solutions.

- Designed for unshielded, internal or external I/O connectors
- Compliant with T10/Serial Attached SCSI (SAS-4) standard
- Supports many assembly options



### FEATURES

- High density connector
- 0.60mm pitch, 4x, 6x, 8x, 12x configurations
- 8x SlimSAS solution consumes the same area as 4x Mini-SAS HD
- Supports internal and external I/O applications
- Small Form Factor
- High data rate
- Low profile packaging
- Meets SAS 4.0, 24Gb/s specification
- Resonance dampening feature
- Supports many assembly options

### BENEFITS

- Low profile connector saves space
- Complete interconnect solution for different applications
- Performance targeted for next-gen SAS 4.0 and PCIe Gen 4
- Receptacle mates pluggable modules
- Supports desired high speed design
- Meets next-generation industry standards
- Customized signal integrity specification and support NVLink 25G
- Supports blade and mainstream server designs

## TECHNICAL INFORMATION

### MATERIAL

- Housing: Black color, LCP, Lead Free Solder Reflow Process Compatible Thermoplastic
- Contact Base Material: Phosphor Bronze
- Contact Normal Force: 50g nominal
- Plating Solder Tails: Matte tin or Gold flash options
- Plating Mating Tails: Gold
- Resonance Dampening Feature: Conductive Polymer

### MECHANICAL PERFORMANCE

- Mating Force: 55.5 N max.
- Durability: 250 mating cycles min.
- Latch Retention Force: 50 N min.
- Insertion Force: 55.5 N
- Withdrawal Force: 49 N

### APPROVALS AND CERTIFICATIONS

- UL 94V-0
- RoHS
- Halogen-free

### PACKAGING

- Tape & Reel

### ELECTRICAL PERFORMANCE

- Voltage Rating: 30VDC per contact max.
- Current Rating: 0.5A per contact max.
- Differential Impedance:  $85 \Omega \pm 10 \Omega$

### ENVIRONMENTAL

- Operating Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

### SPECIFICATION

- Amphenol Product Specification: SFF-8654

### TARGET MARKETS/APPLICATIONS



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



## PART NUMBER SELECTOR

U10		X		X		XX		X		X		X		XX		T	
SlimSAS Receptacle																Tape & Reel	
Style																Sequence Number	
A	X8 Right Angle															Blank	PN assigned
B	X8 Vertical															01	74 Pos
C	X4 Right Angle															02	38 Pos
D	X4 Vertical																
E	X4 Vertical Low Profile																
F	X8 Vertical Low Profile																
G	X12 Vertical Low Profile																
J	X12 Right Angle																
K	X12 Vertical																
Impedance																Option	
0	85Ω															0	Standard (except U10BH74*)
4	85Ω enhancement (Right Angle)															0	No Resonance Dampening for U10BH74*
																1	No Resonance Dampening (except U10BH74*)
																1	Resonance Dampening for U10BH74*
Number of Positions																Latch Anchor Metal Shell Option	
38	38 Pos															0	Pin 1.5mm long, Right Angle
74	74 Pos															1	SMT
Contact Plating																3	No latch metal shell
2	30 μ" Gold Plating over Nickel															4	Pin 2.2mm long, Right Angle
3	15 μ" Gold Plating over Nickel															5	Pin 3.0mm long, Right Angle
																6	Pin 4.2mm long, Right Angle
																0	Pin 1.5mm long, Pin inside footprint on Vertical
																2	Pin 1.5mm long, Pin outside footprint on Vertical
																3	No Latch
																4	Pin 2.2mm long, Pin outside footprint on Vertical
																5	Pin 3.0mm long, Pin outside footprint on Vertical
																6	Pin 4.2mm long, Pin outside footprint on Vertical
																7	Pin 2.2mm long, Pin inside footprint on Vertical
																8	Pin 3.0mm long, Pin inside footprint on Vertical
																9	Pin 4.2mm long, Pin inside footprint on Vertical

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## Looking for pricing, stock, or lifecycle information?

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