



**THE DATASHEET OF  
U10BH7424101T**



# 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

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