



**THE DATASHEET OF
U10BH7426001T**



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°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*
																Latch Anchor Metal Shell Option	
																0	Pin 1.5mm long, Right Angle
																1	SMT
																3	No latch metal shell
																4	Pin 2.2mm long, Right Angle
																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
Number of Positions																	
38																38 Pos	
74																74 Pos	
Contact Plating																	
2																30 μ" Gold Plating over Nickel	
3																15 μ" Gold Plating over Nickel	

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View U10BH7426001T on WIN SOURCE](#)
-  [Amphenol Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management