

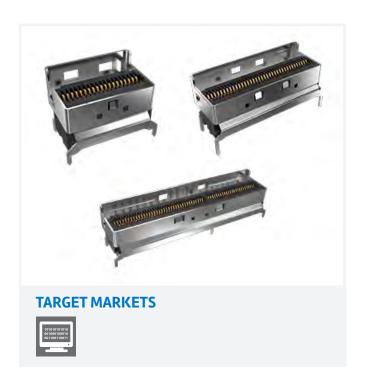
SlimSAS[™] Low Profile Connectors – U10 Series

PROVEN, HIGH SPEED, VERY LOW PROFILE NEXT GENERATION SAS 4.0/PCIe® 4.0 INTERFACE

In order to provide higher speed and smaller size solution on networking equipment and server, Amphenol ICC has developed SlimSAS™ low profile connector which is used in application of UPI1.0, 11.2GT/s, 24Gb/s SAS signal or 16GT/s PCIe® signal.

With 0.60mm contact pitch, Low Profile (LP) SlimSAS[™] solutions are smaller than mainstream connectors in current market to save space in end devices. LP SlimSAS[™] was also called SlimSAS[™] LP. These products have robust metal shell on receptacle on board and latch on plug to provide reliable connection.

- Mating height (connector+cable plug): 1.45mm
- Designed for unshielded, internal or external I/O connectors
- Compliant with Intel UPI 1.0, T10/serial attached SCSI (SAS 4.0) and PCIe® 4.0 standard EMI shielding
- Supports many assembly options



FEATURES

- Very low profile
- 0.60mm pitch, 4x, 6x, 8x, 12x configurations
- Supports UPI1.0 11.2GT/s, 25 Gb/s signal rate (56G PAM4), SAS 4.0 24Gb/s and PCIe® 4.0 16GT/s per lane
- Supports internal and external I/O applications
- Small Form Factor, high data rate and low profile packaging
- Meets SAS 4.0, 24Gb/s specification
- Resonance dampening feature
- Supports many assembly options

BENEFITS

- Saves board space
- Complete interconnect solution for different applications
- Performance targeted for next-generation SAS 4.0 and PCIe® 4.0
- Receptacle mates pluggable modules
- Supports 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: 55.5N max.

• Durability: 250 mating cycles min.

Latch Retention Force: 50N min.

Insertion Force: 55.5N

• Withdrawal Force: 49N

ELECTRICAL PERFORMANCE

• Voltage Rating: 30V DC per contact max.

• Current Rating: 0.5A per contact max.

• Differential Impedance: $85\Omega \pm 10\Omega$

PACKAGING

■ Tape & Reel

SPECIFICATION

Amphenol Product Specification: SFF-8654

ENVIRONMENTAL

■ Operating Temperature Range: -40°C to +85°C

APPROVALS AND CERTIFICATION

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

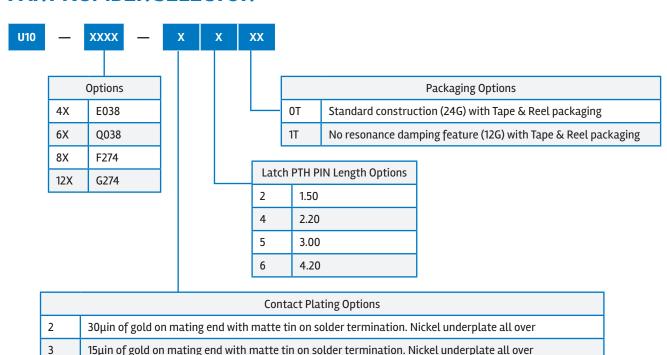
TARGET MARKETS/APPLICATIONS



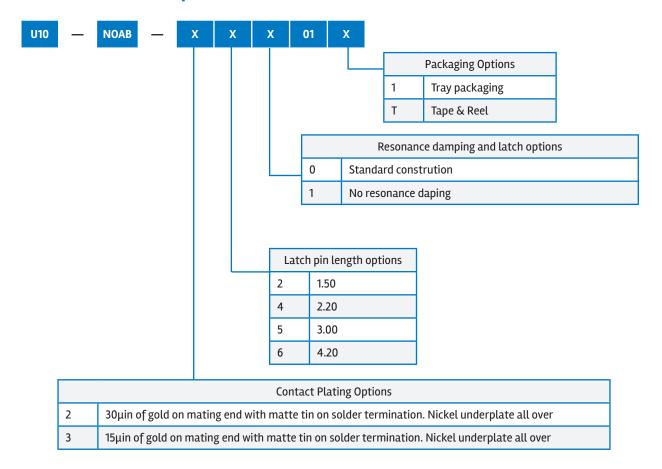
Data Center HBA (Host Bus Adapter) Servers RAIDS (Redundant Array of Individual Disks) Routers

Switches
Servers
Storage Racks
Storage Controllers

PART NUMBER SELECTOR



SlimSAS™ Low Profile Connectors – U10 Series



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

<u>U10F274240T</u> <u>U10F274250T</u> <u>U10F274251T</u> <u>U10F274340T</u> <u>U10F274241T</u> <u>U10F274350T</u> <u>U10F274350T</u> <u>U10F274351T</u> <u>U10F274350T</u>