

ExtremePort™ Swift Connectors – G99 Series

PROVEN, HIGH SPEED, VERY LOW PROFILE NEXT GENERATION SAS-4/PCIE-5 INTERFACE

In order to provide higher speed and smaller size solution on networking equipment and server, Amphenol has developed ExtremePort™ Swift connector which is used in application of PCIe® Gen5 signal NRZ 32GT/s, UPI 2.0 24GT/s, 24Gb/s SAS signal.

With 0.6mm contact pitch, ExtremePort™ Swift solutions are smaller than mainstream connectors in current market to save space in end device. The products have robust metal shell on receptacle on board and latch on plug to provide reliable connection.

- Mating height (connector+cable plug) = 8.38mm
- Designed for unshielded, internal I/O connectors
- Compliant with PCIe® Gen 5 Standard, Intel UPI 2.0 and T10/Serial Attached SCSI (SAS-4)
- Supports many assembly options



TARGET MARKETS



FEATURES

- Very low profile
- 0.60mm pitch, 8X, 16X configurations
- With 85Ω impedance and support PCIe® Gen 5 NRZ 32GT/s, UPI2.0 24GT/s, and SAS4.0 24Gb/s per lane
- Supports internal I/O applications
- Small Form Factor
- High data rate
- Low profile packaging
- Meets PCIe® Gen 5 NRZ 32G 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 PCIe® Gen 5
- Receptacle mates pluggable modules
- Supports desired high speed design
- Meets next-generation industry standards
- Supports blade and mainstream server designs
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, LCP, lead free solder reflow process compatible thermoplastic
- Contact Base Material: Copper alloy
- Plating Solder Tails: Gold flash
- Plating Mating Tails: Gold selected gold plating
- Resonance Dampening Feature: Conductive polymer

MECHANICAL PERFORMANCE

- Mating Force: 0.5N max./per pin
- Durability: 15u" Au:100 cycles, 30u" Au:250 cycles
- Latch Retention Force: 50N min.
- Insertion Force: 0.5N max./per pin
- Withdrawal Force: 0.04N min./per pin

ELECTRICAL PERFORMANCE

- Voltage Rating: 30V DC per contact max.
- Current Rating: 0.5A per contact max.
- Differential Impedance: 85Ω ± 10Ω

PACKAGING

- Tape & Reel

SPECIFICATION

- Amphenol Product Specification: PS-7772

ENVIRONMENTAL

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

APPROVALS & CERTIFICATION

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

TARGET MARKETS/APPLICATIONS



Baseband
Commercial Systems
Networking
Radio Units



High-end Computing System
Server and Storage Systems

PART NUMBER SELECTOR

