

# 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

