

Amphenol ICC

ExtremePort[™] Z–Link Connector

SFF-TA-1002 STANDARD SOLUTION – UP TO 56G PAM4

Amphenol ICC introduces the SFF-TA-1002 standard solution – ExtremePort[™] Z-Link, which is a 0.60mm pitch connector come with a slim form factor design, capable of transmitting high-speed signal up to 56G PAM4, and allowing much greater signal path lengths while maintaining SI performance when compared to conventional pcb routing methods.

ExtremePort[™] Z-Link not only provides a SI performance ready signal transmission but also a new way of system design that is cost-effective, highly modular, scalable, and extremely easy to repair.

- Compliant to Gen-Z and OCP NIC specification
- High speed 56Gb/s PAM4 capability
- Supports both cable and card edge applications



FEATURES

- 0.60mm pitch, vertical and right angle configurations
- Up to 56Gb/s PAM4, over 1.0 meter transmission distance
- Supports both cable and card edge applications with one identical connector
- SFF-TA-1002 standard form factor, with 85Ω impedance and various pin number options meeting PCIe/NVMe/OCP NIC/Gen-Z specifications

BENEFITS

- Slim form factor for compact data center system designs
- Extends transmission range far more over the conventional PCB routes
- Provides flexibility in system design to meet highly modular, scalable and easy-to-repair requirements
- Saves system material cost, engineering and certification expenses with high succession of system design

TECHNICAL INFORMATION

MATERIAL

- Contact Base Metal: Copper alloy
- Contact Area Finish: Gold over nickel
- Solder Area Finish: Tin over nickel
- Housing & Spacer: High temperature thermoplastic (UL 94V-0)
- Shorting Bar: Conductive plastic
- Cage: Stainless steel, nickel plating overall

ELECTRICAL PERFORMANCE

- Contact Resistance: 30m Ω max. initial; 15m Ω max. change after test
- Dielectric Withstanding Voltage: 300VDC

MECHANICAL PERFORMANCE

- Durability: 250 mating cycles
- Mating Force: 0.6N/pin max.
- Unmating Force: 0.06N/pin min.

ENVIRONMENTAL

- Humidity: EIA-364-31, Method III, Subject unmated specimens to 24 cycles between 25°C/ 80%RH and 65°C/ 50%RH
- Temperature Life: EIA-364-17, Method A Test Condition 2, Test Time Condition C, Subject mated specimens to 105°C for 168 hours
- Thermal Shock: EIA-364-32, Method A Test condition 1, -55°C to 85°C (10 cycles)

APPROVALS & CERTIFICATION

- UL

SPECIFICATIONS

Amphenol Product Specification: PS-7681

PACKAGING

Carrier Tape

TARGET MARKETS/APPLICATIONS

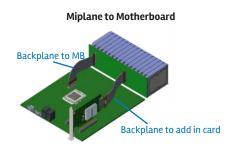


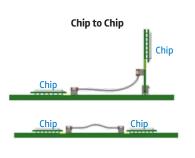
Baseband Commercial Systems Networking Radio Units

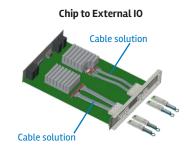


High-end Computing System Server and Storage Systems

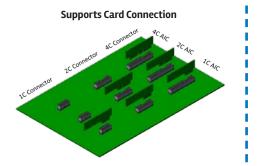
OverPass[™] Applications

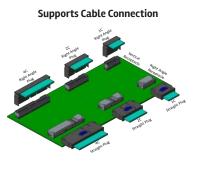






ExtremePort[™] Z-Link Features





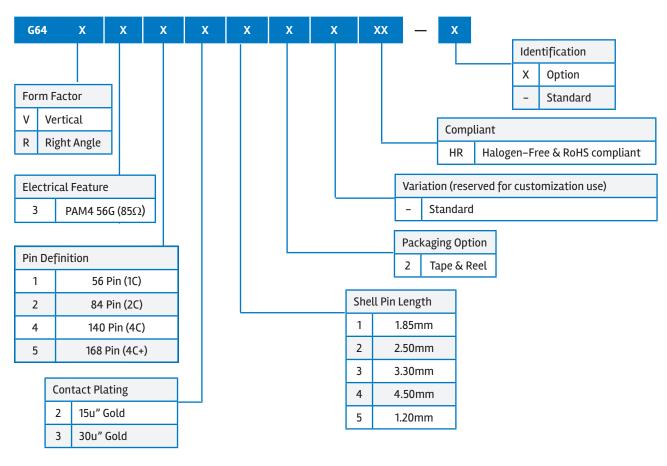
Metal protection at mating interface



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Disclaimer Please note that the above information is

Please note that the above information is subject to change without notice.



PART NUMBER SELECTOR

PART NUMBERS

Other options available: 1.20mm, 2.50mm, 3.30mm, 4.50mm Shell DIP Length

Speed	Impedance	Form Factor	No. of Pins	Contact Finish	Shell DIP Length 1.85mm
56G PAM4	85Ω	Vertical	56 (1C)	Gold 15u"	G64V31212HR
			56 (1C)	Gold 30u"	G64V31312HR
			84 (2C)	Gold 15u"	G64V32212HR
			84 (2C)	Gold 30u"	G64V32312HR
			140 (4C)	Gold 15u"	G64V34212HR
			140 (4C)	Gold 30u"	G64V34312HR
			168 (4C+)	Gold 15u"	G64V35212HR
			168 (4C+)	Gold 30u"	G64V35312HR
		Right Angle	56 (1C)	Gold 15u"	G64R31212HR
			56 (1C)	Gold 30u"	G64R31312HR
			84 (2C)	Gold 15u"	G64R32212HR
			84 (2C)	Gold 30u"	G64R32312HR
			140 (4C)	Gold 15u"	G64R34212HR
			140 (4C)	Gold 30u"	G64R34312HR
			168 (4C+)	Gold 15u"	Coming Soon
			168 (4C+)	Gold 30u"	Coming Soon

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Mouser Electronics

Authorized Distributor

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Amphenol:

 G64R31312HR
 G64R32312HR
 G64R34312HR
 G64V31312HR
 G64V32312HR
 G64V34312HR
 G64V31352HR

 G64V3431BHR
 G64V3131BHR
 G64V31314HR
 G64V31322HR
 G64V3231BHR
 G64V34315HR
 G64V35333HR

 G64V31342HR
 G64V32332HR
 G64V32332HR
 G64V34315HR
 G64V35333HR

 G64V31342HR
 G64V32332HR
 G64V32332HR
 G64V35333HR

FCI / Amphenol:

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