

Amphenol ICC

Mini Cool Edge IO Connector

NEXT-GENERATION HIGH SPEED INTERCONNECT SOLUTION - UP TO 56G PAM4/PCIe® Gen 4/ PCIe® Gen 5

Amphenol ICC introduces the next-generation OverPass[™] solution – Mini Cool Edge IO. The 0.60mm pitch connector come with a slim form factor design, capable of transmitting high-speed signal up to 56G PAM4/PCIe[®] Gen 4/PCIe[®] Gen 5, and allowing much greater signal path lengths while maintaining SI performance when compared to conventional pcb routing methods.

Mini Cool Edge IO 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.

- High speed 56Gb/s PAM4 /PCIe[®] Gen 4/PCIe[®] Gen 5 capability
- Supports both cable and card edge connection



FEATURES

- 0.60mm pitch, vertical and right angle configurations
- Up to 56Gb/s PAM4, PCIe[®] Gen 4, PCIe[®] Gen 5, over 1.0 meter transmission distance
- Supports both cable and card edge applications with one identical connector
- Optional for 92Ω (G42 series), 85Ω (G97 series) and 95Ω (G98 series) impedance and various pin number options – meeting PCIe[®]/NVMe/SAS/SFP(+)/QSFP 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 pastic
- Cage: Stainless steel, nickel plating overall

ELECTRICAL PERFORMANCE

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

MECHANICAL PERFORMANCE

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

APPROVALS & CERTIFICATION

• UL

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)

SPECIFICATIONS

- Amphenol Product Specification:
- G42 series-PS-7681
- G97 series-PS-7755
- G98 series-PS-7793

PACKAGING

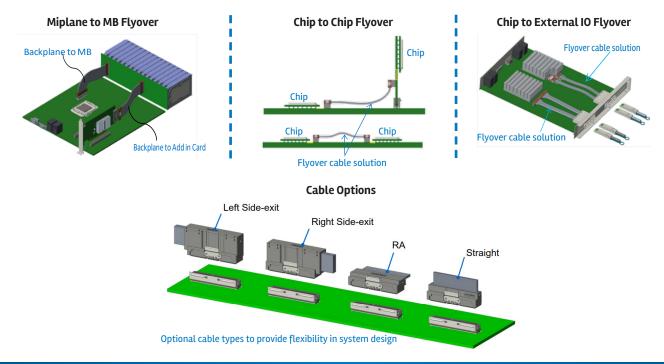
Carrier Tape

TARGET MARKETS/APPLICATIONS

Baseband Commercial Systems Networking Radio Units

High-end Computing System Server and Storage Systems

Amphenol OverPass[™] Applications

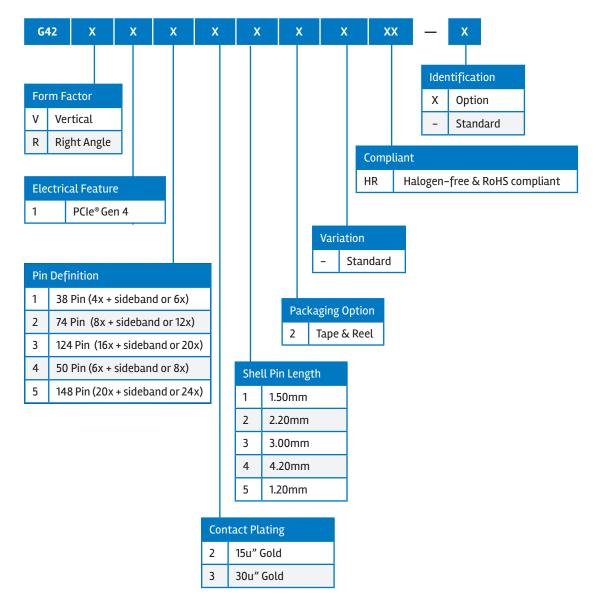


Disclaimer

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

PART NUMBER SELECTOR

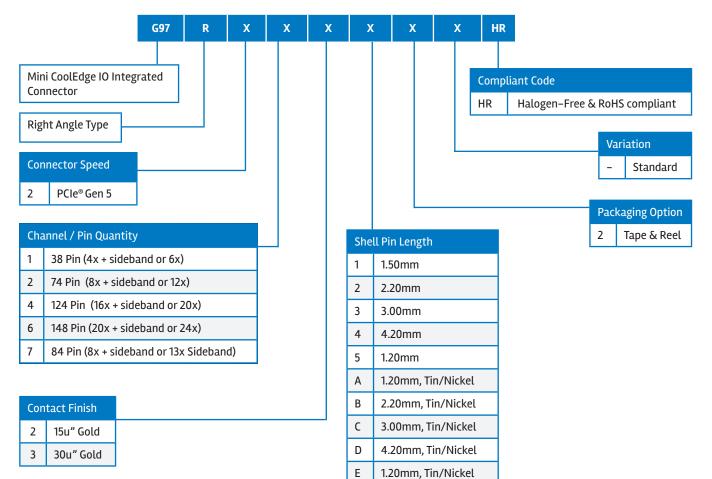


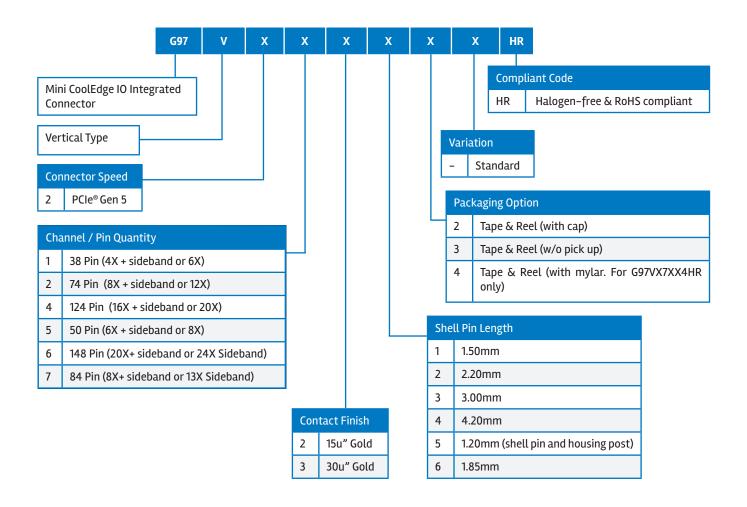
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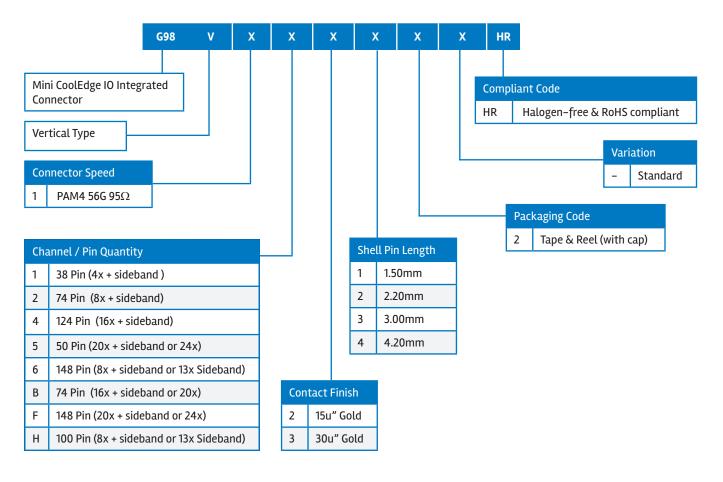




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