

Multi-Trak™

NEXT-GENERATION HIGH-SPEED INTERCONNECT SOLUTION – UP TO 56G PAM4/PCIE® GEN 5, TARGET TO MEET 64G PAM4 FOR PCIE® GEN 6

Amphenol introduces the next-generation product – Multi-Trak™. The 0.60mm pitch connector come with a slim form factor design, capable of transmitting high-speed signal up to 56G PAM4 PCIe® Gen 5 and target to meet 64G PAM4 PCIe® Gen 6 and allowing much greater signal path lengths while maintaining SI performance when compared to conventional PCB routing methods.

Multi-Trak™ 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 5 capability
- Supports both cable and card edge connection
- Support Power solutions with DIP type for total 21A
- Meets OCP DC-MHS and SFF-TA-1033 specifications



TARGET MARKETS



FEATURES

- 0.60mm pitch, vertical configurations
- With Power solutions in DIP type, total can support 21A
- Up to 56Gb/s PAM4, PCIe® Gen 5, over 1.0 meter transmission distance
- Supports both cable and card edge applications with one identical connector
- Optional for 85Ω (G03 series) impedance and various pin number options – meeting PCIe®/NVMe/SAS/SFP(+)/QSFP/ OCP DC-MHS/ SFF-TA-1033 specifications

BENEFITS

- Combine original PCIe® and MCIO to be one connector, include POWER and high/low speed signal
- Reverse cable for easy to organize the layout
- Variety of plugs to support different routing requirement
- Support different applications for AIC, Combo cable and MCIO STD cable
- Modularized design for further expansion, card and cable interactive support

TECHNICAL INFORMATION

MATERIAL

- Contact Base Metal: Copper Alloy
- Contact Area Finish: Gold over Nickel
- Solder Area Finish: Tin over Nickel
- Housing: High-temperature thermoplastic (UL 94V-0)
- Cage: Stainless steel, Nickel plating overall

MECHANICAL PERFORMANCE

- Durability: 200 mating cycles
- Mating Force: 1.1N per pair pin
- Unmating Force: 0.1 per pair pin

ELECTRICAL PERFORMANCE

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

PACKAGING

- Carrier Tape

SPECIFICATION

- Amphenol Product Specification: PS-07846

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 AND CERTIFICATIONS

- UL

TARGET MARKETS/APPLICATIONS



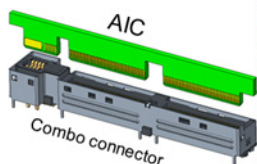
Baseband
Commercial Systems
Networking
Radio Units



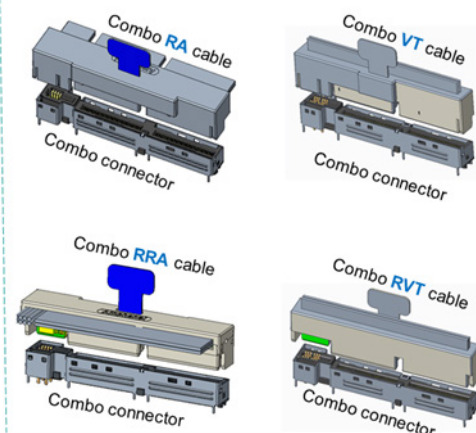
High-end Computing System
Server and Storage Systems

AMPHENOL MULTI-TRAK™ APPLICATIONS

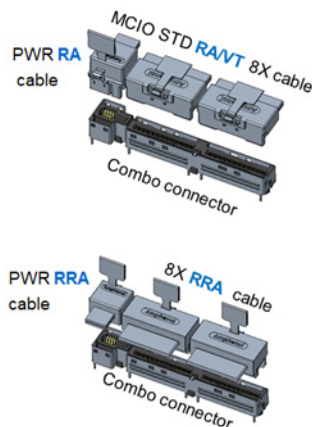
Application 1:
One AIC plug in a
combo connector



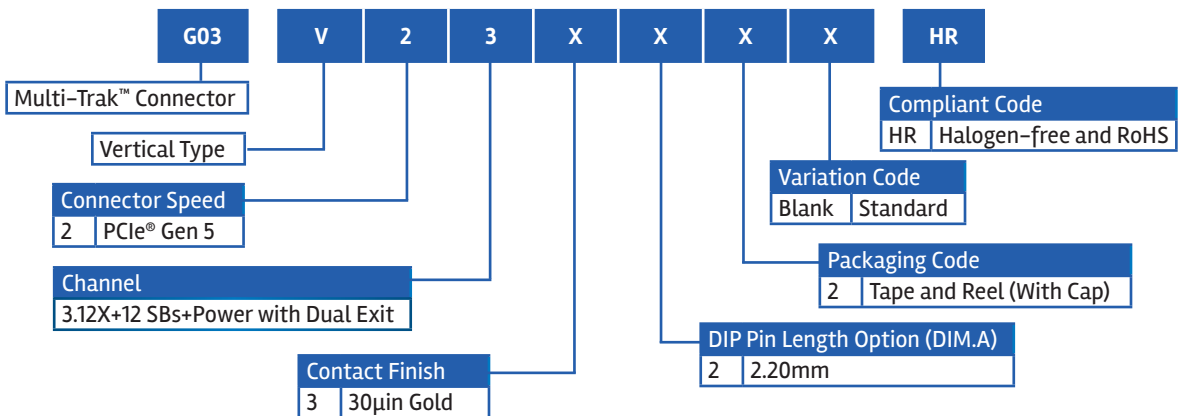
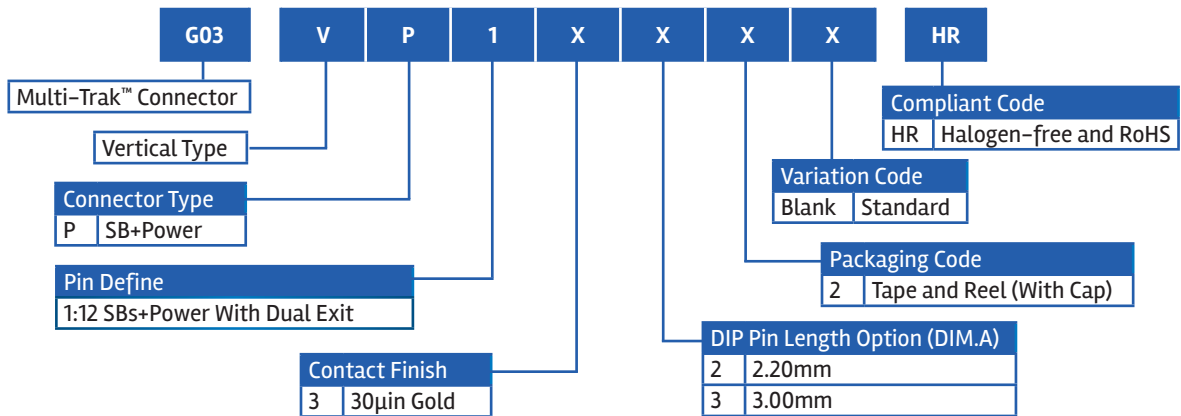
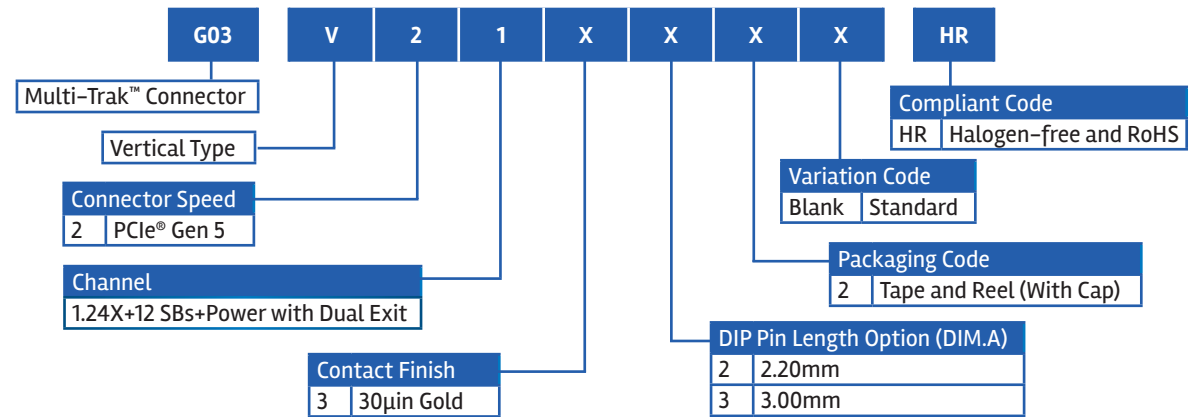
Application 2:
Combo cable



Application 3:
STD MCIO 2*8X cable



PART NUMBER SELECTOR



CM10MLTTRAK1122EA4