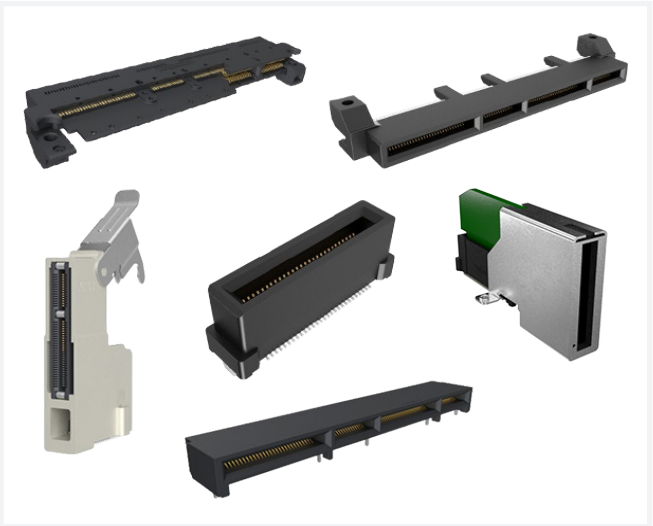
PCIe® Gen 6 Mini Cool Edge 0.60mm Card Edge Connectors

MEETS EDSFF E1/E3, SFF-A-1002, OCP NIC 3.0, GEN Z AND PCIE® ENCLOSURE COMPATIBLE FORM FACTOR(PECFF) SPECIFICATIONS

Mini Cool Edge is a 0.60mm high-density, high-speed card edge connector for new-generation small form factor systems. This fine-pitch solution offers multiple BTB applications like right-angle, mezzanine, and coplanar connectors. Cable options are available for a complete interconnect solution.

Mini Cool Edge 0.60mm meets EDSFF, SFF-TA-1002 (1006/1007/1008/1020/1021), OCP NIC 3.0, Gen Z, and JEDEC specifications.

- Applications include Solid State Drive (SSD), Network Interface Card (NIC), riser card and specific module card.
- Vertical, right angle, straddle mount, and orthogonal connector options with high-speed cable are available
- High-speed 64GT/s , can upgrade to 112GT/s PAM4



TARGET MARKETS



FEATURES

- Signal pin pitch at 0.6mm with current rating of 1.1A, up to 12 pins for power application
- Signal pins options from 56, 84, 140, 168, 280
- Customization of pin count upon request
- Small form factor
- Supports 1.57mm mating board thickness. Support for 1.97mm, 2.36mm PCB board available upon request
- Hybrid & power individual options from 4C-HP, 4 power pins and 2 power pins are available

BENEFITS

- Supports small power BTB applications
- Provides power for module card
- Supports different board-to-board, module applications like FPGA, SSD, NIC
- Serves as a space-saving connector and cable solution
- Product portfolio meets standard BTB applications
- Support accelerator card, GPU applications, and power module

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)

ELECTRICAL PERFORMANCE

- Contact Resistance: 15m max. change after test
- Insulation Resistance: 1000M min.
- Dielectric Withstanding Voltage: 300VAC

MECHANICAL PERFORMANCE

- Durability: 200 mating cycles
- Mating Force: 0.55N/pin max.
- Unmating Force: 0.05N/pin min.

TOOLING INFORMATION

- Special pin count option available upon request

SPECIFICATIONS

- Amphenol Product Specification: S-ME-004

ENVIRONMENTAL

- Humidity: EIA-64-31B, Method III without conditioning
- Temperature Life: EIA-364-17, Method A (without electrical load) Test temperature and test duration per EIA 364-1000 Table 8
- Thermal Shock: EIA-364-32, Method A, Table 2, Test condition 1, -40°C to 105°C, perform 5 cycles in mated condition
- Mixed Flow Gas: EIA-364-65, Class IIA, option 4. For 7 years field life

TARGET MARKETS/APPLICATIONS

Baseband
Commercial Systems
Networking
Radio Units

High-end Computing System
Server and Storage Systems

PART NUMBERS

Description	Part Numbers
Mini Cool Edge, 0.60mm, 56 signal pins, SMT, Vertical, Gen 6	ME6G05610101011
Mini Cool Edge, 0.60mm, 84 signal pins, SMT, Vertical, Gen 6	ME6G08410102011
Mini Cool Edge, 0.60mm, 140 signal pins, SMT, Vertical, Gen 6	ME6G14010101011
Mini Cool Edge, 0.60mm, 168 signal pins, SMT, Vertical, Gen 6	ME6G16810101011
Mini Cool Edge, 0.60mm, 84 signal pins, SMT, Vertical, 112G, 85Ω	MEP008410100001
Mini Cool Edge, 0.60mm, 56 signal pins, SMT, OCP, Straddle mount, 1.6mm PCB, 0.0mm offset, Gen 6	ME6005633401101
Mini Cool Edge, 0.60mm, 84 signal pins, SMT, OCP, Straddle mount, 1.6mm PCB, 0.0mm offset, Gen 6	ME6008433401101
Mini Cool Edge 0.60mm 140 signal pins, SMT, OCP, Straddle mount, 1.6mm PCB, 0.0mm offset, Gen 6	ME6014033401101
Mini Cool Edge, 0.60mm, 168 signal pins, SMT, OCP, Straddle mount, 1.6mm PCB, 0.0mm offset, Gen 6	ME6016833401101
Mini Cool Edge, 0.60mm, 168 signal pins, SMT, OCP, Straddle mount, 3.05mm PCB, 0.0mm offset, Gen 6	ME6016833401R01
Mini Cool Edge, 0.60mm, 56 signal pins, SMT, Right Angle, 4.05mm PCB, Gen 6	ME6005610201031
Mini Cool Edge, 0.60mm, 84 signal pins, SMT, Right Angle, 4.05mm PCB, Gen 6	ME6008410201031
Mini Cool Edge, 0.60mm, 140 signal pins, SMT, Right Angle, 4.05mm PCB, Gen 6	ME6014010201031
Mini Cool Edge, 0.60mm, 168 signal pins, SMT, Right Angle, 4.05mm PCB, Gen 6	ME6016810201031
Mini Cool Edge, 0.60mm, 56 signal pins, Orthogonal, Seating height 7.805mm, SMT (2 pcs), Gen 6	ME6005630501111
Mini Cool Edge, 0.60mm, 56 signal pins, DirectAttached™, Cable end, Gen 6	ME6005630DP0101
Mini Cool Edge, 0.60mm, 84 signal pins, DirectAttached™, Cable end, Gen 6	ME6008430DP0101
Mini Cool Edge, 0.60mm, 140 signal pins, DirectAttached™, Cable end, Gen 6	ME6014030DP0101
Mini Cool Edge, 0.60mm, 168 signal pins, DirectAttached™, Cable end, Gen 6	ME6016830DP0101

Find part number details using the search box on www.amphenol-cs.com

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