**Samtec Introduces New PCIe® 6.0 Capable Micro Edge Card Connector**

**Generate™ Micro Socket Strip Meets CXL 3.0 Requirements for High-Speed Connectivity**

(New Albany, IN, USA) – Samtec, Inc.’s Generate™ high-speed edge card sockets ([HSEC6-DV](https://www.samtec.com/products/hsec6-dv) Series) support 64 Gbps PAM4 (32 Gbps NRZ) applications and are PCIe® 6.0 capable.  HSEC6-DV is used in prototypical PCIe 6.0 AI hardware designs serving as the interconnect between the motherboard and add-in cards.

The HSEC6-DV’s rugged Edge Rate® contacts, in a differential pair configuration on 0.60 mm pitch, are optimized for signal integrity performance and high cycle life.

HSEC6-DV is compliant to SFF-TA-1002 x4 (1C), x8 (2C), x16 (4C and 4C+).  The edge card socket strip is available with 28, 42, 70, and 84 positions per row, and mates with 1.60 mm (.062”) thick cards.  Optional weld tabs provide extra mechanical strength of the connector to the PCB.

The HSEC6-DV is RoHS compliant, lead-free solderable, is rated at 240 VAC, and the current rating is 1.92 A with 2 pins energized.

Mating cable assemblies ([GC6](https://www.samtec.com/products/gc6) Series) are also PCIe 6.0 compatible, supporting 64 Gbps PAM4 (32 Gbps NRZ) applications.  The cable is 34 AWG Samtec Eye Speed® ultra-low skew twinax.  GC6 cable assemblies are available in 28, 42, and 70 positions, and are standard with 100-ohm differential pair signal routing.

HSEC6-DV is the latest in a full-line of Generate™high-speed edge card connectors, rated up to 56 Gbps PAM4, on 0.80, and 1.00 mm centerline.  These products are available in vertical, right-angle, edge mount, and pass-through orientations.  They are also available in power/signal combos, with press-fit tails, locks and latches.

**About Samtec**

Founded in 1976, Samtec is a privately held global manufacturer of a broad line of electronic interconnect solutions, including High-Speed Board-to-Board, High-Speed Cables, Mid-Board and Panel Optics, Precision RF, Flexible Stacking, and Micro/Rugged components and cables.  Samtec Technology Centers develop and advance technologies, strategies, and products to optimize both the performance and cost of a system from the bare die to an interface 100 meters away, and all interconnect points in between.

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