

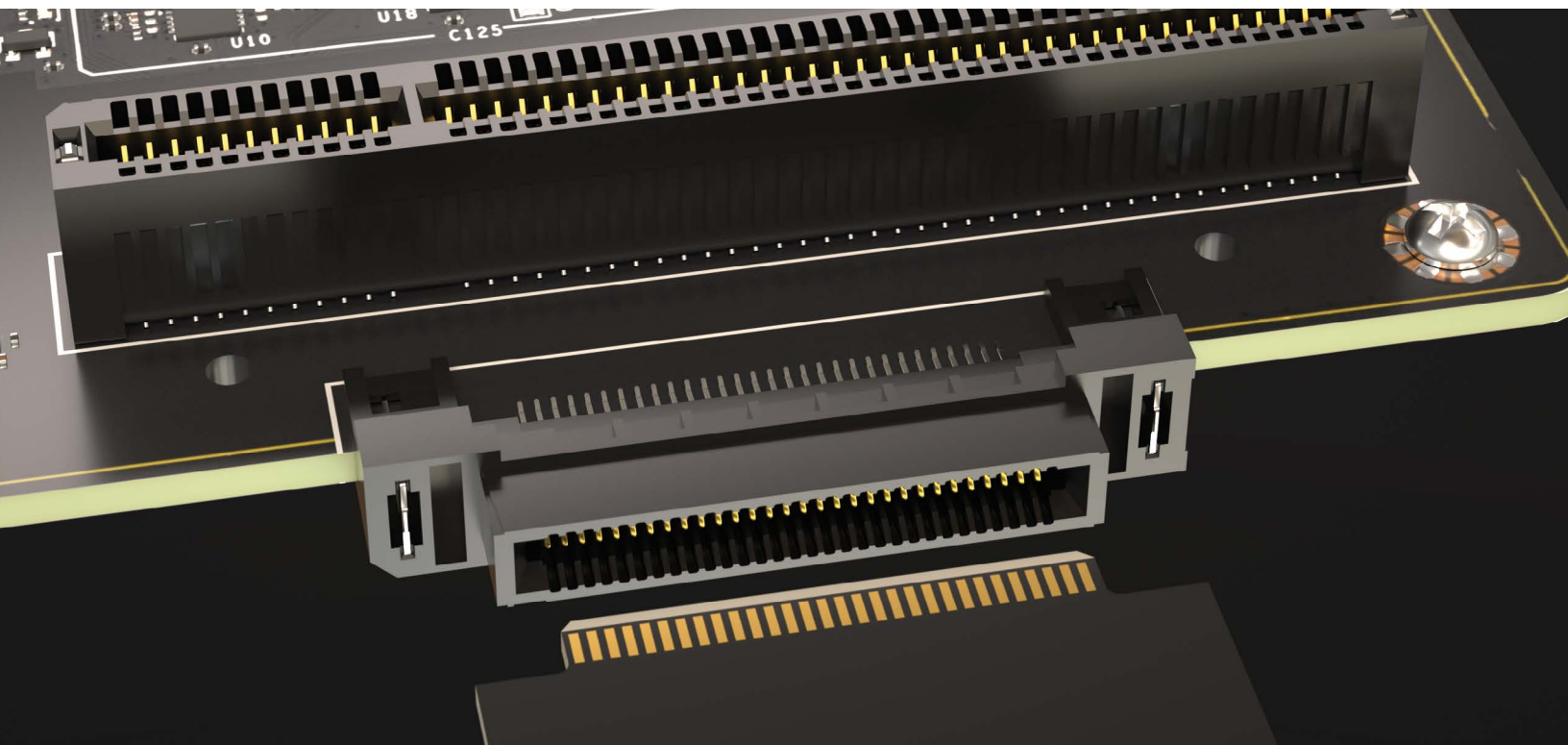


EDGE CARD SYSTEMS



samtec.com/edgecard

EDGE CARD SYSTEMS



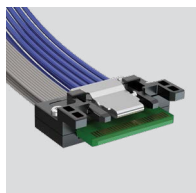
GENERATE® 0.60 mm PITCH SOCKETS

- Differential pair Edge Rate® contacts optimized for signal integrity performance
- Compliant to SFF-TA-1002: x4 (1C), x8 (2C), x16 (4C and 4C+)
- Mates with .062" (1.60 mm) thick cards
- PCIe® 6.0 / CXL® 3.1 capable
- Right-angle in development
- Shield option available to mate with Generate® edge card cable (GC6)

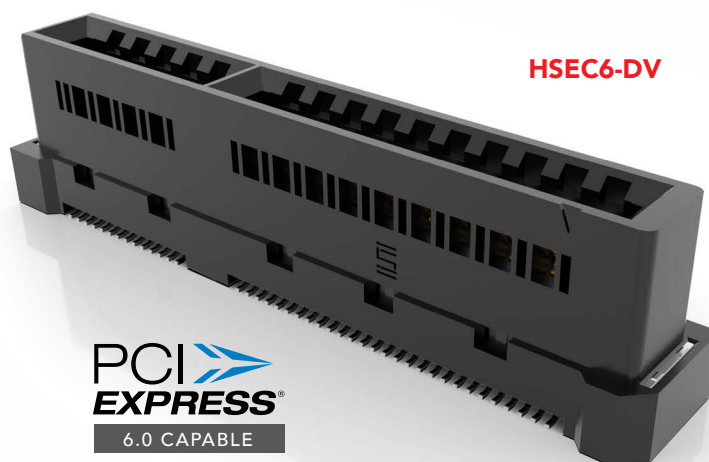
GENERATE

PAM4
64
Gbps

HSEC6-DV



Generate® mating high-speed cable assembly (GC6)



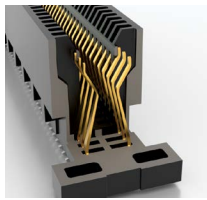
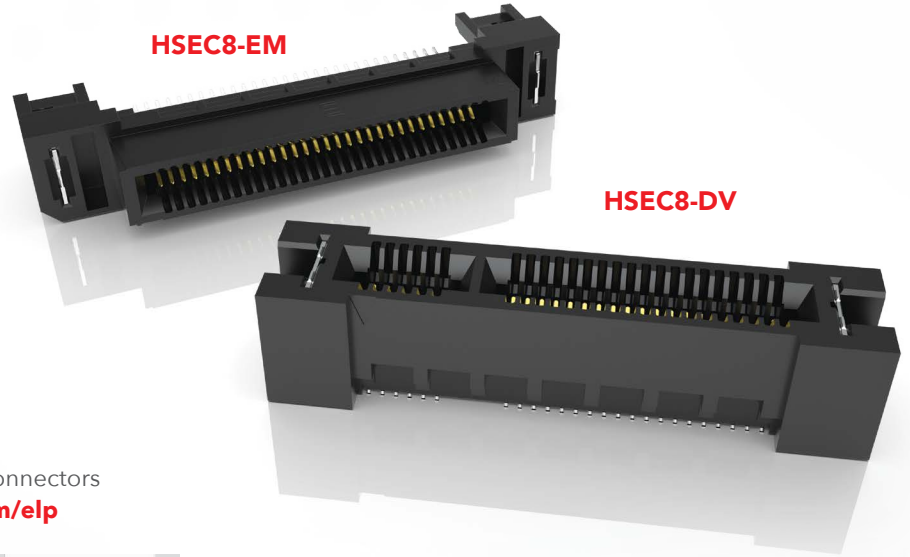
PCI EXPRESS®
6.0 CAPABLE

GENERATE® 0.80 mm PITCH SOCKETS

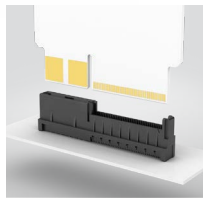
GENERATE

PAM4
56
Gbps

- Up to 200 high-speed Edge Rate® contacts
- Mates with .062" (1.60 mm) and .093" (2.36 mm) thick cards
- Performance to 28 Gbps; differential pair to 56 Gbps PAM4 (HSEC8-DP)
- PCIe® 4.0 capable vertical (HSEC8-DV) and differential pair (HSEC8-DP) sockets
- Vertical, right-angle, edge mount and cable mate (ECDP) available
- Optional weld tabs, alignment pins, board locks and cable latching
- High-speed riser card system for elevated heights to 30 mm (RU8)
- Extended Life Product™ high mating cycle connectors (HSEC8); test reports available at samtec.com/elp



Rugged PCIe® 4.0 capable socket with tucked beam technology (HTEC8)



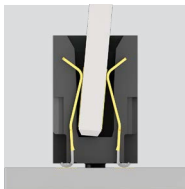
Power/signal combo with 2 or 4 power banks (HSEC8-PV)

GENERATE® 1.00 mm PITCH SOCKETS

GENERATE

NRZ
28
Gbps

- Edge Rate® contact system for decreased crosstalk and increased cycle life
- 20 - 140 positions
- Mates with .062" (1.60 mm) thick cards
- PCIe® 4.0 capable
- Optional alignment pins and weld tabs for mechanical strength

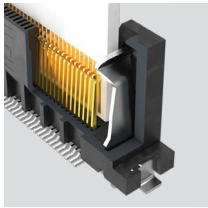


Custom designs can aid with misalignment in the X-Y axes

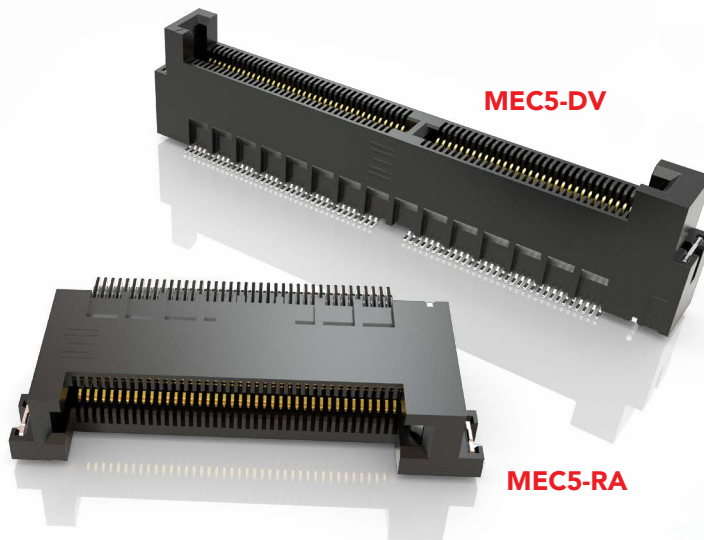


0.50 mm PITCH HIGH-SPEED, LOW-COST SOCKETS

- Justification beam enables use of standard PCB tolerance
- Up to 300 total I/Os
- PCIe® 4.0 capable
- Mates with .062" (1.60 mm) thick cards



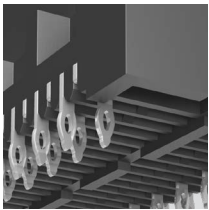
Beam ensures card and body are flush



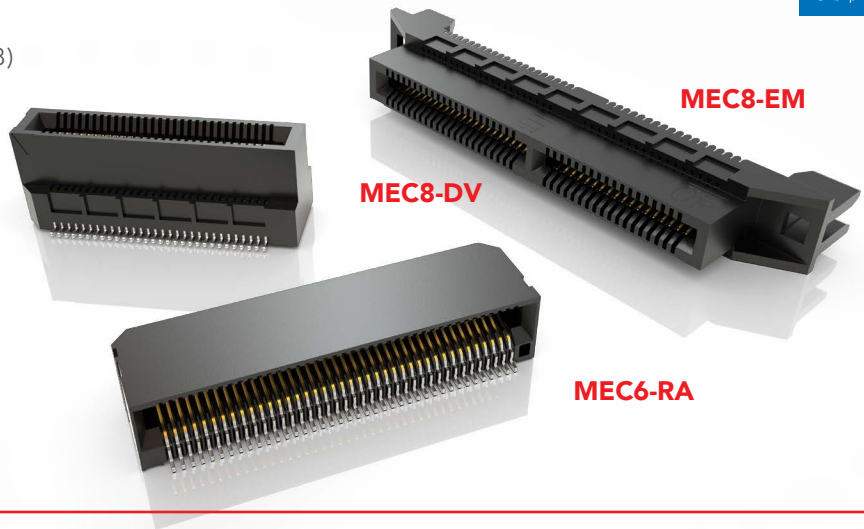
PAM4
56
Gbps

0.635 mm & 0.80 mm PITCH MICRO SOCKETS

- Up to 140 total I/Os
- Vertical and right-angle; edge mount (MEC8)
- Press-fit tails available (MEC8-VP)
- Mates with .062" (1.60 mm) thick cards



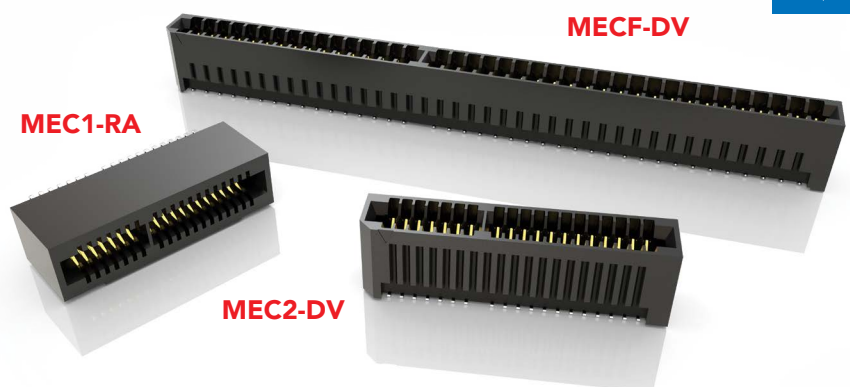
Staggered press-fit tails



NRZ
25
Gbps

1.00 mm, 1.27 mm & 2.00 mm PITCH SOCKETS

- Up to 140 total I/Os
- Right-angle and edge mount available (MEC1)
- Optional weld tabs, alignment pins and polarization
- Mates with .062" (1.60 mm) and .093" (2.36 mm) thick cards
- Surface mount or through-hole tails (MEC2)



NRZ
25
Gbps

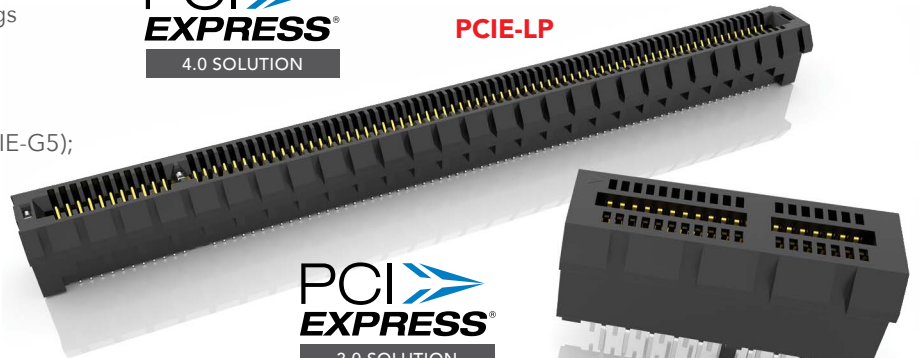
PCI EXPRESS® 3.0, 4.0 & 5.0/6.0 SOCKETS



- 1.00 mm pitch in x1, x4, x8 or x16 link options
- PCIe® 3.0 solution (PCIE)
- PCIe® 4.0 low profile version for space savings (PCIE-LP); through-hole tails in development
- PCIe® 4.0 slim body connector (PCIE-G4)
- PCIe® 5.0 /6.0 differential pair connector (PCIE-G5); design in today for future proof data rates
- CXL® capable connectors
- Mates with .062" (1.60 mm) thick cards
- PCI Express® jumpers available



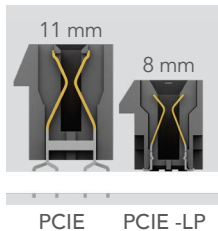
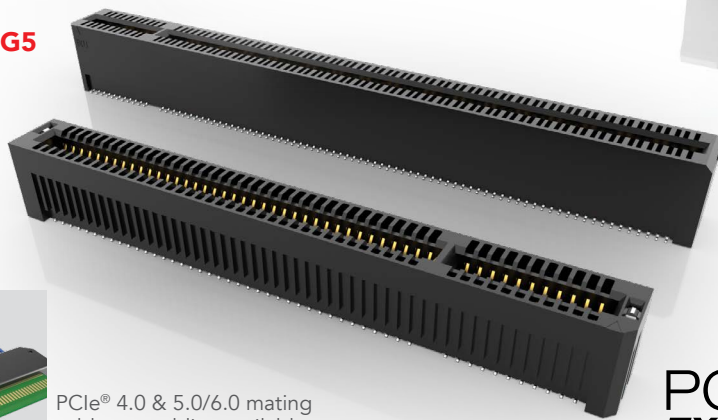
PCIE-LP



PCIE

PCIE-G5

PCIE-G4



PCIe® 4.0 & 5.0/6.0 mating cable assemblies available (PCIEC-G4, PCIEC-G5)

1.00 mm PITCH MICRO PLANE SOCKETS

- 40 to 80 I/Os per pair
- Mounts in pairs on same or opposite sides for easy signal routing
- BeCu contacts with large deflection
- PCI Express® 3.0 capable
- Mounting flexibility for variable mating card thickness and pass-through applications



SAL1



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