# PCIe GEN 4 CARD EDGE CONNECTORS

New Connectors Support Platforms with Higher Bandwidth

TE Connectivity's (TE) PCIe Gen 4 card edge connectors meet industry PCI-SIG Card Electromechanical (CEM) specification 4.0 and support up to 16 Gbps of bandwidth. Designed to support next-generation CPUs for better system application scaling, TE's PCIe Gen 4 card edge connectors feature a 1.00mm pitch to enable all generations of PCI Express signaling designs and support speeds of 16 Gbps (PCIe Gen 4), 8.0 Gbps (PCIe Gen 3), 5.0 Gbps (PCIe Gen 2) and 2.5 Gbps (PCIe Gen 1). In addition, the connectors' footprint and mating interface are backward-compatible with each PCIe generation.

## Applications

- Servers
- Storage
- Workstations
- Desktop PCs

## Product Benefits

- Support next-generation processors for better system application scaling and higher bandwidth in servers, workstations and desktop PCs
- Available in a wide variety of configurations, including x1, x4, x8, x16 (36/64/98/164 positions) standard links as per PCI-SIG CEM specification
- The 1.00mm pitch, industry standard card edge connectors enable all generations of PCI Express signaling designs and support 16 Gbps (Gen 4), 8.0 Gbps (Gen 3), 5.0 Gbps (Gen 2), and 2.5 Gbps (Gen 1)
- Footprint and mating interface backward-compatible with each generation

## Key Features

- Speed: 16 Gbps (NRZ)
- Impedance: 85Ω
- Pitch: 1.0mm
- Tail: Vertical SMT, through-hole (DIP), straddle mount
- Pin count: x16 (164P), x8 (98P), x4 (64P), x1 (36P)
- Plating: 30u'', 15u'', gold flash
- Pitch: 1.0mm
- Polyester film: Full cover surface, 10mm x 10mm
- Housing material: High-temp thermo plastic (RoHS compliant)
- Package: Hard tray/Soft tray/T&R
- Durability: 50 cycles
- Product specifications:
  - #108-60121 for 30u" gold plated product
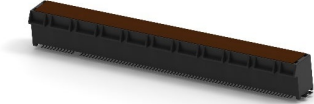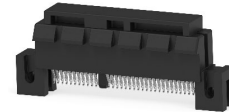  - #108-60121-1 for 15u" gold plated and gold flash product



**Through-hole**
Base part number: 2362375



**Surface Mount Technology (SMT)**
Base part number: 2337939



**Straddle Mount Open End**
Base part number: 2387405



**Straddle Mount**
Base part number: 2372484

## Product Offering

**Standard PCIe Gen 4 (solder pad)**

| Part Number | Position | Plating | Package | Polyester Film Size |
|---|---|---|---|---|
| 5-2337939-8 | 164 | 30u'' | Hard Tray | 86.5x7 |
| 5-2337939-7 | 98 | 30u'' | Hard Tray | 53.5x7 |
| 5-2337939-6 | 64 | 30u'' | Soft Tray | 36.5x7 |
| 5-2337939-4 | 164 | 30u'' | Hard Tray | 10x10 |
| 5-2337939-3 | 98 | 30u'' | Hard Tray | 10x10 |
| 5-2337939-2 | 64 | 30u'' | Soft Tray | 10x10 |
| 4-2337939-8 | 164 | 15u'' | Hard Tray | 86.5x7 |
| 4-2337939-7 | 98 | 15u'' | Hard Tray | 53.5x7 |
| 4-2337939-6 | 64 | 15u'' | Soft Tray | 36.5x7 |
| 4-2337939-4 | 164 | 15u'' | Hard Tray | 10x10 |
| 4-2337939-3 | 98 | 15u'' | Hard Tray | 10x10 |
| 4-2337939-2 | 64 | 15u'' | Soft Tray | 10x10 |
| 3-2337939-8 | 164 | Gold/Flash | Hard Tray | 86.5x7 |
| 3-2337939-7 | 98 | Gold/Flash | Hard Tray | 53.5x7 |
| 3-2337939-6 | 64 | Gold/Flash | Soft Tray | 36.5x7 |
| 3-2337939-4 | 164 | Gold/Flash | Hard Tray | 10x10 |
| 3-2337939-3 | 98 | Gold/Flash | Hard Tray | 10x10 |
| 3-2337939-2 | 64 | Gold/Flash | Soft Tray | 10x10 |

# PCIe GEN 4 CARD EDGE CONNECTORS

| Part Number | Position | Plating | Package | Polyester Film Size |
|---|---|---|---|---|
| 2-2337939-4 | 164 | 30u" | Hard Tray | N/A |
| 2-2337939-3 | 98 | 30u" | Hard Tray | N/A |
| 2-2337939-2 | 64 | 30u" | Soft Tray | N/A |
| 6-2337939-4 | 164 | 15u" | Hard Tray | N/A |
| 6-2337939-3 | 98 | 15u" | Hard Tray | N/A |
| 6-2337939-2 | 64 | 15u" | Soft Tray | N/A |
| 2337939-4 | 164 | Gold/Flash | Hard Tray | N/A |
| 2337939-3 | 98 | Gold/Flash | Hard Tray | N/A |
| 2337939-2 | 64 | Gold/Flash | Soft Tray | N/A |

## Standard PCIe Gen 4 (open end)

| Part Number | Position | Plating | Package | Polyester Film Size |
|---|---|---|---|---|
| 5-2349820-8 | 164 | 30u" | Hard Tray | 86.5x7 |
| 5-2349820-7 | 98 | 30u" | Hard Tray | 53.5x7 |
| 5-2349820-4 | 164 | 30u" | Hard Tray | 10x10 |
| 5-2349820-3 | 98 | 30u" | Hard Tray | 10x10 |
| 4-2349820-8 | 164 | 15u" | Hard Tray | 86.5x7 |
| 4-2349820-7 | 98 | 15u" | Hard Tray | 53.5x7 |
| 4-2349820-4 | 164 | 15u" | Hard Tray | 10x10 |
| 4-2349820-3 | 98 | 15u" | Hard Tray | 10x10 |
| 3-2349820-8 | 164 | Gold/Flash | Hard Tray | 86.5x7 |
| 3-2349820-7 | 98 | Gold/Flash | Hard Tray | 53.5x7 |
| 3-2349820-4 | 164 | Gold/Flash | Hard Tray | 10x10 |
| 3-2349820-3 | 98 | Gold/Flash | Hard Tray | 10x10 |
| 2-2349820-4 | 164 | 30u" | Hard Tray | N/A |
| 2-2349820-3 | 98 | 30u" | Hard Tray | N/A |
| 6-2349820-4 | 164 | 15u" | Hard Tray | N/A |
| 6-2349820-3 | 98 | 15u" | Hard Tray | N/A |
| 2349820-4 | 164 | Gold/Flash | Hard Tray | N/A |
| 2349820-3 | 98 | Gold/Flash | Hard Tray | N/A |

## Standard PCIe Gen 4 (solder tab)

| Part Number | Position | Plating | Package | Polyester Film Size |
|---|---|---|---|---|
| 5-2354154-8 | 164 | 30u" | Hard Tray | 86.5x7 |
| 5-2354154-4 | 164 | 30u" | Hard Tray | 10x10 |
| 4-2354154-8 | 164 | 15u" | Hard Tray | 86.5x7 |
| 4-2354154-4 | 164 | 15u" | Hard Tray | 10x10 |
| 3-2354154-8 | 164 | Gold/Flash | Hard Tray | 86.5x7 |
| 3-2354154-4 | 164 | Gold/Flash | Hard Tray | 10x10 |
| 2-2354154-4 | 164 | 30u" | Hard Tray | N/A |
| 6-2354154-4 | 164 | 15u" | Hard Tray | N/A |
| 2354154-4 | 164 | Gold/Flash | Hard Tray | N/A |

Note: solder tab has 3 versions: 2354154, 2374253, 2379893 and only tooled for 164 pin for these 3 versions.
Please contact the Product Manager for other configuration opportunities

## Through-hole PCIe Gen 4

| Part Number | Position | Plating | Package | Tail length (mm) |
|---|---|---|---|---|
| 5-2362375-4 | 164 | 30u" | Tray | 3.1 |
| 4-2362375-4 | 164 | 15u" | Tray | 3.1 |
| 3-2362375-4 | 164 | Gold/Flash | Tray | 3.1 |
| 2-2362375-4 | 164 | 30u" | Tray | 2.3 |
| 1-2362375-4 | 164 | 15u" | Tray | 2.3 |
| 2362375-4 | 164 | Gold/Flash | Tray | 2.3 |
| 5-2362375-3 | 98 | 30u" | Tray | 3.1 |
| 4-2362375-3 | 98 | 15u" | Tray | 3.1 |
| 3-2362375-3 | 98 | Gold/Flash | Tray | 3.1 |
| 2-2362375-3 | 98 | 30u" | Tray | 2.3 |
| 1-2362375-3 | 98 | 15u" | Tray | 2.3 |
| 2362375-3 | 98 | Gold/Flash | Tray | 2.3 |
| 5-2362375-2 | 64 | 30u" | Tray | 3.1 |
| 4-2362375-2 | 64 | 15u" | Tray | 3.1 |
| 3-2362375-2 | 64 | Gold/Flash | Tray | 3.1 |
| 2-2362375-2 | 64 | 30u" | Tray | 2.3 |
| 1-2362375-2 | 64 | 15u" | Tray | 2.3 |
| 2362375-2 | 64 | Gold/Flash | Tray | 2.3 |
| 5-2362375-1 | 36 | 30u" | Tray | 3.1 |

| Part Number | Position | Plating | Package | Tail length (mm) |
|---|---|---|---|---|
| 4-2362375-1 | 36 | 15u" | Tray | 3.1 |
| 3-2362375-1 | 36 | Gold/Flash | Tray | 3.1 |
| 2-2362375-1 | 36 | 30u" | Tray | 2.3 |
| 1-2362375-1 | 36 | 15u" | Tray | 2.3 |
| 2362375-1 | 36 | Gold/Flash | Tray | 2.3 |

## Straddle Mount PCIe Gen 4

| Part Number | Position | Plating | Package | Cap | Accept PCB (Host Board) Thickness |
|---|---|---|---|---|---|
| 5-2372484-4 | 164 | 30u" | Tray | Yes | 2.3 +/- 0.18 |
| 4-2372484-4 | 164 | 15u" | Tray | Yes | 2.3 +/- 0.18 |
| 3-2372484-4 | 164 | Gold/Flash | Tray | Yes | 2.3 +/- 0.18 |
| 2-2372484-4 | 164 | 30u" | Tray | Yes | 1.57 +/- 0.05 |
| 1-2372484-4 | 164 | 15u" | Tray | Yes | 1.57 +/- 0.05 |
| 2372484-4 | 164 | Gold/Flash | Tray | Yes | 1.57 +/- 0.05 |
| 2-2372484-3 | 98 | 30u" | Tray | Yes | 1.57 +/- 0.05 |
| 1-2372484-3 | 98 | 15u" | Tray | Yes | 1.57 +/- 0.05 |
| 2372484-3 | 98 | Gold/Flash | Tray | Yes | 1.57 +/- 0.05 |
| 2-2372484-2 | 64 | 30u" | Tray | Yes | 1.57 +/- 0.05 |
| 1-2372484-2 | 64 | 15u" | Tray | Yes | 1.57 +/- 0.05 |
| 2372484-2 | 64 | Gold/Flash | Tray | Yes | 1.57 +/- 0.05 |
| 2-2372484-1 | 36 | 30u" | Tray | Yes | 1.57 +/- 0.05 |
| 1-2372484-1 | 36 | 15u" | Tray | Yes | 1.57 +/- 0.05 |
| 2372484-1 | 36 | Gold/Flash | Tray | Yes | 1.57 +/- 0.05 |

## Straddle Mount Open End PCIe Gen 4

| Part Number | Position | Plating | Package | Cap | Accept PCB (Host Board) Thickness |
|---|---|---|---|---|---|
| 2-2387405-4 | 164 | 30u" | Tray | Yes | 1.57 +/- 0.05 |
| 1-2387405-4 | 164 | 15u" | Tray | Yes | 1.57 +/- 0.05 |
| 2387405-4 | 164 | Gold/Flash | Tray | Yes | 1.57 +/- 0.05 |
| 2-2387405-3 | 98 | 30u" | Tray | Yes | 1.57 +/- 0.05 |
| 1-2387405-3 | 98 | 15u" | Tray | Yes | 1.57 +/- 0.05 |
| 2387405-3 | 98 | Gold/Flash | Tray | Yes | 1.57 +/- 0.05 |
| 2-2387405-2 | 64 | 30u" | Tray | Yes | 1.57 +/- 0.05 |
| 1-2387405-2 | 64 | 15u" | Tray | Yes | 1.57 +/- 0.05 |
| 2387405-2 | 64 | Gold/Flash | Tray | Yes | 1.57 +/- 0.05 |
| 2-2387405-1 | 36 | 30u" | Tray | Yes | 1.57 +/- 0.05 |
| 1-2387405-1 | 36 | 15u" | Tray | Yes | 1.57 +/- 0.05 |
| 2387405-1 | 36 | Gold/Flash | Tray | Yes | 1.57 +/- 0.05 |

## Extended Height PCIe Gen 4

| Part Number | Position | Plating | Package | Polyester Film Size |
|---|---|---|---|---|
| 5-2358477-8 | 164 | 30u" | Hard Tray | 86.5x7 |
| 5-2358477-7 | 98 | 30u" | Hard Tray | 53.5x7 |
| 5-2358477-4 | 164 | 30u" | Hard Tray | 10x10 |
| 5-2358477-3 | 98 | 30u" | Hard Tray | 10x10 |
| 4-2358477-8 | 164 | 15u" | Hard Tray | 86.5x7 |
| 4-2358477-7 | 98 | 15u" | Hard Tray | 53.5x7 |
| 4-2358477-4 | 164 | 15u" | Hard Tray | 10x10 |
| 4-2358477-3 | 98 | 15u" | Hard Tray | 10x10 |
| 3-2358477-8 | 164 | Gold/Flash | Hard Tray | 86.5x7 |
| 3-2358477-7 | 98 | Gold/Flash | Hard Tray | 53.5x7 |
| 3-2358477-4 | 164 | Gold/Flash | Hard Tray | 10x10 |
| 3-2358477-3 | 98 | Gold/Flash | Hard Tray | 10x10 |
| 2-2358477-4 | 164 | 30u" | Hard Tray | N/A |
| 2-2358477-3 | 98 | 30u" | Hard Tray | N/A |
| 6-2358477-4 | 164 | 15u" | Hard Tray | N/A |
| 6-2358477-3 | 98 | 15u" | Hard Tray | N/A |
| 2358477-4 | 164 | Gold/Flash | Hard Tray | N/A |
| 2358477-3 | 98 | Gold/Flash | Hard Tray | N/A |

Note: Extended height version only tooled 164 pin and 98 pin. Please contact the Product Manager for other configurations.

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**2-1773982-2**     **06/21**