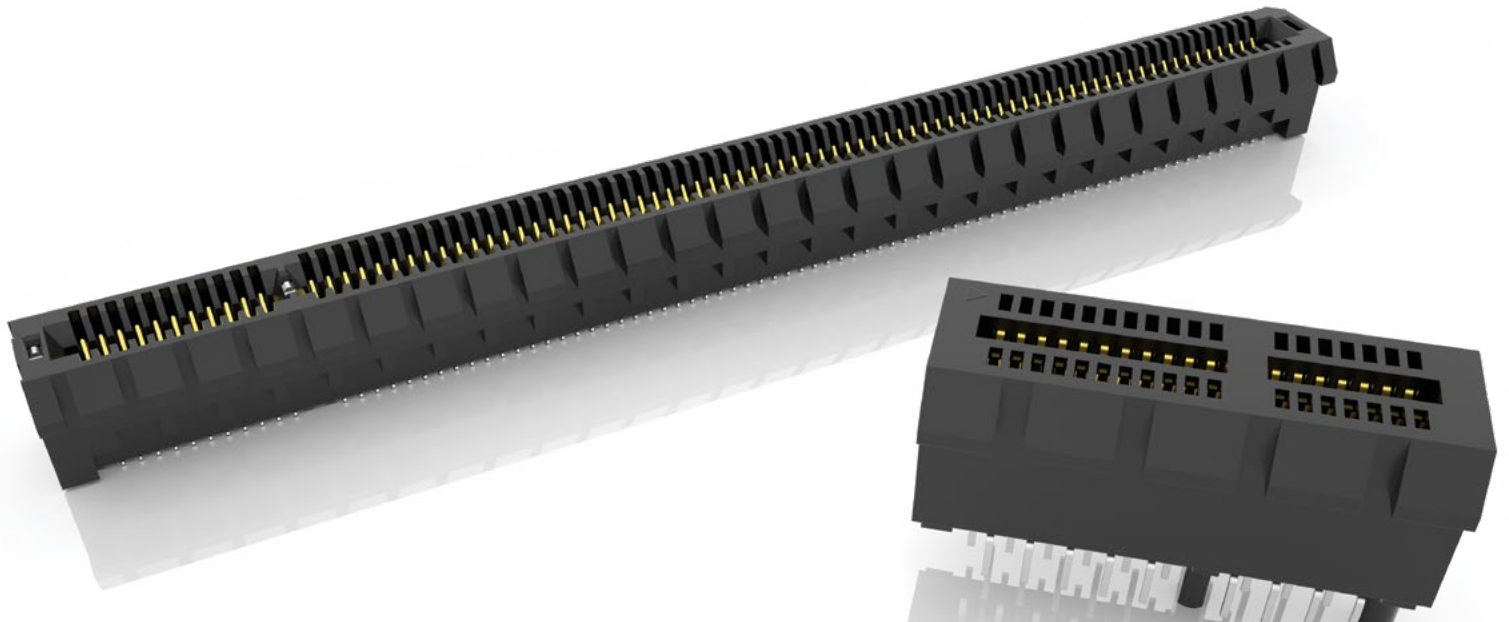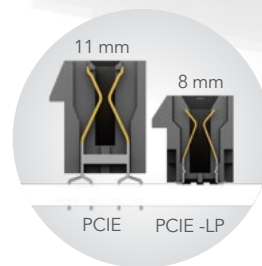# PCI EXPRESS

## PCI EXPRESS® EDGE CARD SOCKETS
### (1.00 mm) .0394" PITCH



## FEATURES & BENEFITS

- 1.00 mm pitch
- Supports 1, 4, 8 and 16 PCI Express® links
- PCIE® 3.0 Solution (PCIE)
- PCIE® 4.0 Solution with low-profile design for space savings (PCIE-LP)
- PCIE® 4.0 with slim body design (PCIE-G4)
- PCIE® 5.0 Solution with differential pair signaling (PCIE-G5)
- Vertical, right-angle and edge mount
- Mates with .062" (1.60 mm) thick cards
- Alignment pin and weld tab options



11 mm   8 mm
PCIE   PCIE -LP

PCIE® 3.0 & 4.0 Edge Card connectors



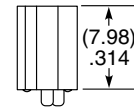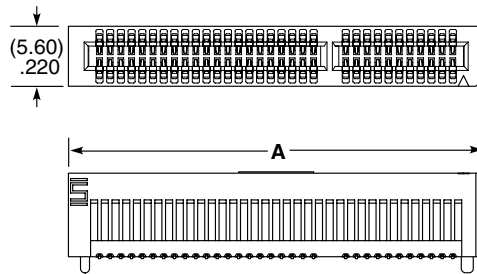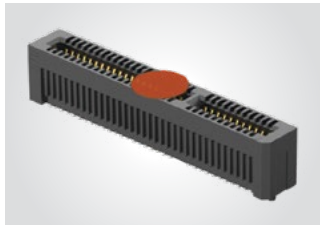PCIE® 4.0 slim body socket with Edge Rate® contacts (PCIE-G4)

## KEY SPECIFICATIONS

| SERIES | TOTAL PINS (LANES) | INSULATOR MATERIAL | CONTACT MATERIAL | OPERATING TEMP RANGE | CURRENT RATING | VOLTAGE RATING | PCIE® COMPATIBILITY |
|---|---|---|---|---|---|---|---|
| PCIE | 36 (x1), 64 (x4), 98 (x8), 164 (x16) | -TH = Black Nylon -EMS2 & -TH = LCP | Phosphor Bronze | -55 °C to +125 °C | 2.4 A (2 pins) | 215 VAC | 3.0 |
| PCIE-LP | 36 (x1), 64 (x4), 98 (x8), 164 (x16) | LCP | Phosphor Bronze | -55 °C to +125 °C | 2.1 A (2 pins) | 215 VAC | 4.0 |
| PCIE-G4 | 36 (x1), 64 (x4), 98 (x8), 164 (x16) | LCP | Copper Alloy | -55 °C to +125 °C | 2.2 A (2 pins) | 300 VAC | 4.0 |
| PCIE-G5 | 36 (x1), 64 (x4), 98 (x8), 164 (x16) | LCP | Copper Alloy | -55 °C to +125 °C | 3.2 A (2 pins) | 235 VAC | 5.0 |

## (1.00 mm) .0394" PITCH  •  PCI EXPRESS® 4.0 SOCKET

| PCIE | – | G4 | – | NUMBER OF LANES | – | 01 | – | PLATING OPTION | – | DV | – | OPTION 1 | – | OPTION 2 | – | PACKAGING |

**NUMBER OF LANES**
–01, –04, –08, –16

**PLATING OPTION**
**–F** = Gold flash on contact, Matte Tin on tail

**–S** = 30 µ" (0.76 µm) Gold on contact, Matte Tin on tail

**OPTION 1**
**–A** = Alignment Pin (Not available with -WT)

**–WT** = Weld Tab (Not available with -A)

**OPTION 2**
**–K** = (7.00 mm) .275" DIA Polyimide Pick & Place Pad

**PACKAGING**
(For -16 lanes only leave blank for Tray Packaging)

**–TR** = Tape & Reel ("X"R required with –01, –04, –08 lanes)

**–FR** = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) ("X"R required with –01, –04, –08 lanes)
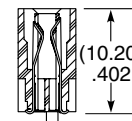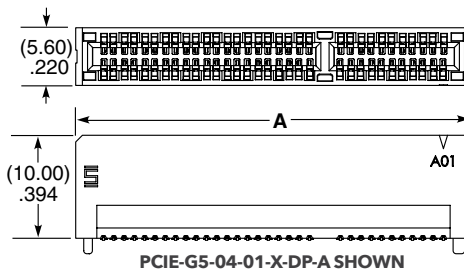
### PCIE-G4

**Card Mates:**
(1.60 mm) .062" card

(5.60) .220

(7.98) .314

A

| NUMBER OF LANES | A |
|---|---|
| **–01** | (24.80) .976 |
| **–04** | (38.80) 1.528 |
| **–08** | (55.80) 2.197 |
| **–16** | (88.80) 3.496 |

View complete specifications at: **samtec.com?PCIE-G4**

## (1.00 mm) .0394" PITCH  •  PCI EXPRESS® 5.0 SOCKET

| PCIE | – | G5 | – | NUMBER OF LANES | – | 01 | – | PLATING OPTION | – | DP | – | A | – | OPTION | – | PACKAGING |

**NUMBER OF LANES**
–01, –04, –08, –16

**PLATING OPTION**
**–F** = Gold flash on contact, Matte Tin on tail

**–S** = 30 µ" (0.76 µm) Gold on contact, Matte Tin on tail

**OPTION**
**–WT** = Weld Tab

**PACKAGING**
(For -16 lanes only leave blank for Tray Packaging)

**–TR** = Tape & Reel ("X"R required with –01, –04, –08 lanes)

**–FR** = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) ("X"R required with –01, –04, –08 lanes)
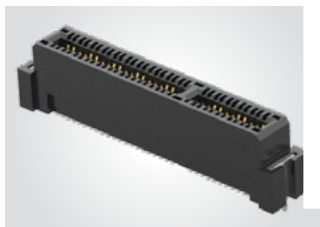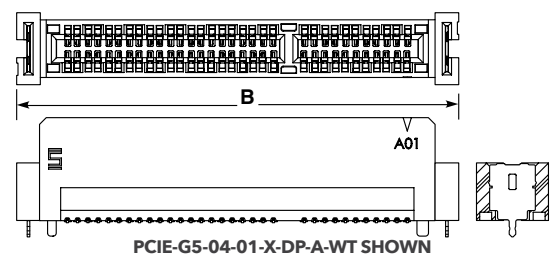
### PCIE-G5

**Card Mates:**
(1.60 mm) .062" card

(5.60) .220

(10.00) .394

A

A01

(10.20) .402

**PCIE-G5-04-01-X-DP-A SHOWN**

B

A01

**PCIE-G5-04-01-X-DP-A-WT SHOWN**

| NUMBER OF LANES | A | B (with –WT) |
|---|---|---|
| **–01** | (24.40) .961 | (26.70) 1.051 |
| **–04** | (38.40) 1.512 | (40.70) 1.602 |
| **–08** | (55.40) 2.181 | (57.70) 2.272 |
| **–16** | (88.40) 3.480 | (90.70) 3.571 |

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**Note:**
Some lengths, styles and options are non-standard, non-returnable.

View complete specifications at: **samtec.com?PCIE-G5**