

# PCI EXPRESS® CARD SOCKETS

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com/PCIE](http://www.samtec.com/PCIE)

### Insulator Material:

–TH=Black Nylon  
–EMS2 & –RA=LCP

### Contact:

Phosphor Bronze

### Plating:

Au or Sn over  
50 μ" (1.27 μm) Ni

### Current Rating:

2.2 A per pin  
(2 adjacent pins powered)

### Operating Temp:

–55 °C to +125 °C

### Card Insertion Depth:

(7.65 mm) .301" nominal

### RoHS Compliant:

Yes

### Lead-Free Solderable:

–RA & –EMS2=Yes

–TH= No, Lead Wave only

## RECOGNITIONS

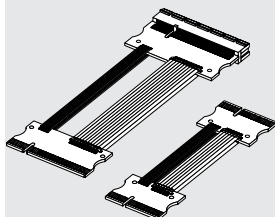
For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## OTHER SOLUTIONS

PCI Express® Jumpers & Extenders call for PCIEC Series



- Loop back Extender (From one PCIe® slot to another PCIe® slot)
- Ser-Des Physical Extender (From one PCIe® slot to another PCIe® Ser-Des)
- Physical Extender for easy troubleshooting of PCIe® card debug and analysis (PCIe® slot to Emulator or Analyzer)

PCI-SIG® PCI Express® and the PCIe® design marks are registered trademarks and/or service marks of PCI-SIG.

### Note:

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

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

**Cable Mates:**  
PCIEC

**Note:**  
While optimized for 50 Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75 Ω applications.

Polarized  
Supports one, four, eight and sixteen PCI Express® links

Accepts  
1.60 mm  
(.062") card

Choice of  
card-edge mount  
or PCB mount

Alignment  
pins

Four rows on  
2 mm pitch

## HIGH-SPEED CHANNEL PERFORMANCE

PCIE

Rating based on Samtec reference channel.  
For full SI performance data visit [Samtec.com](http://Samtec.com)  
or contact [SIG@samtec.com](mailto:SIG@samtec.com)

14  
Gbps

**ALSO AVAILABLE**  
(MOQ Required)

• Other platings

PCIE

NO. OF  
POSITIONS

02

PLATING  
OPTION

D

TAIL  
OPTION

–036, –064, –098, –164

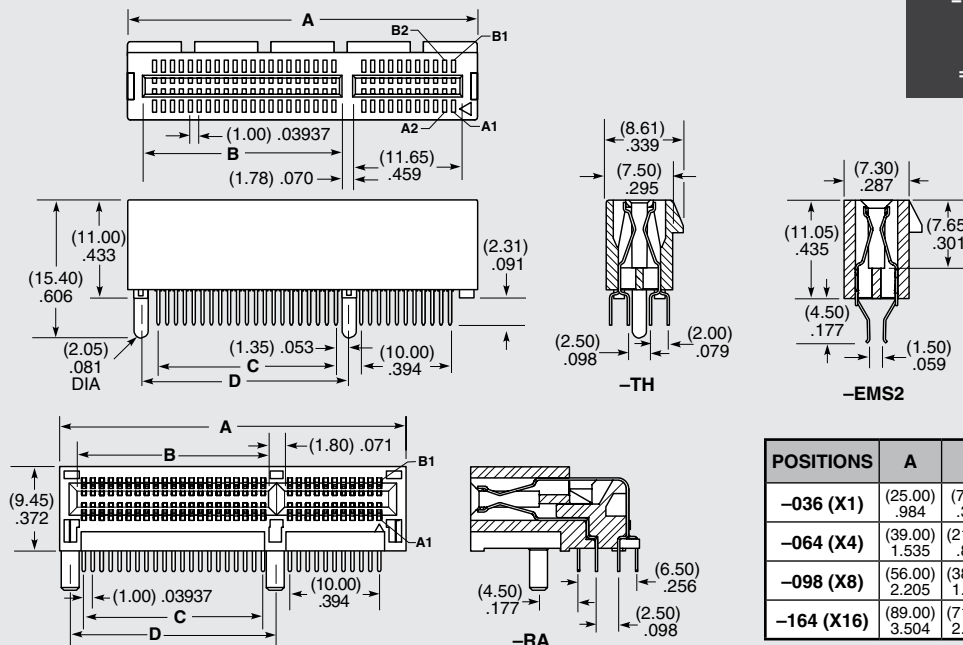
–F

= Gold flash on contact,  
Tin on tail

–EMS2  
= Edge Mount

–TH  
= Through-hole

–RA  
= Right-angle



POSITIONS	A	B	C	D
–036 (X1)	(25.00) .984	(7.65) .301	(6.00) .236	(9.15) .360
–064 (X4)	(39.00) 1.535	(21.65) .852	(20.00) .787	(23.15) .911
–098 (X8)	(56.00) 2.205	(38.65) 1.522	(37.00) 1.457	(40.15) 1.581
–164 (X16)	(89.00) 3.504	(71.65) 2.821	(70.00) 2.756	(73.15) 2.880

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.  
Components must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.