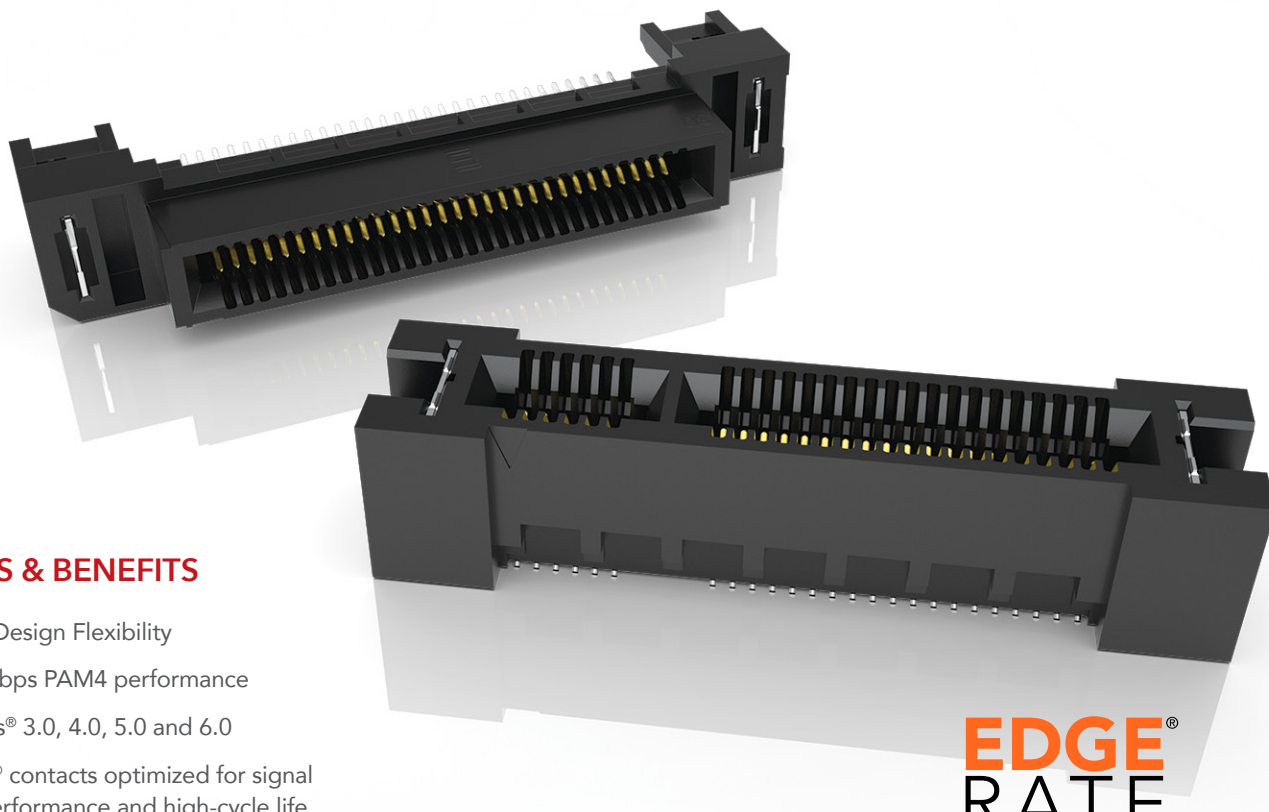


# GENERATE®

## HIGH-SPEED EDGE CARD SYSTEMS

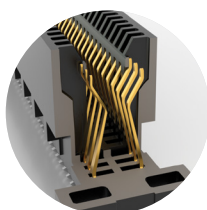
0.60 mm, 0.80 mm and 1.00 mm PITCH



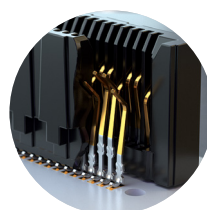
### FEATURES & BENEFITS

- Maximum Design Flexibility
- Up to 64 Gbps PAM4 performance
- PCI Express® 3.0, 4.0, 5.0 and 6.0
- Edge Rate® contacts optimized for signal integrity performance and high-cycle life
- Up to 200 positions available
- Vertical, right-angle, edge mount, pass-through orientations
- Power/signal combo, press-fit tails, rugged weld tabs, locks and latches
- Mating cable assemblies available

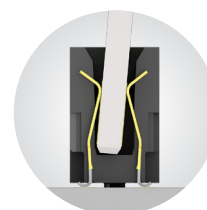
**EDGE  
RATE**  
CONTACT



Rugged tucked beam technology (HTEC8)



Differential pair for increased speed (HSEC8-DP)



Custom designs allow for misalignment in the X-Y axes (HSEC1)

### KEY SPECIFICATIONS

SERIES	PITCH	TOTAL POSITIONS	INSULATOR MATERIAL	CONTACT MATERIAL	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
HSEC6	0.60 mm	56-168	Black LCP	Copper Alloy	-55 °C to +125 °C	1.9 A (2 pins)	240 VAC	Yes
HTEC8	0.80 mm	20-200	Black LCP	Copper Alloy	-55 °C to +125 °C	3.0 A (2 pins)	215 VAC	Yes
HSEC8	0.80 mm	18-200	Black LCP	BeCu	-55 °C to +125 °C	2.8 A (2 pins)	240 VAC	Yes
HSEC1	1.00 mm	20-140	Black LCP	Phosphor Bronze	-55 °C to +125 °C	2.2 A (2 pins)	215 VAC	Yes

**(0.80 mm) .0315" PITCH • PASS-THROUGH & POWER COMBO**

<b>HSEC8</b>	<b>1</b>	<b>POSITIONS PER ROW</b>	<b>CARD THICKNESS</b>	<b>PLATING OPTION</b>	<b>DV</b>	<b>A</b>	<b>PE</b>	<b>OTHER OPTIONS</b>	<b>"X"R</b>
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10, 13, 20

**-01**  
= (1.60 mm) .062" thick card

**-L**  
= 10 μ" (0.25 μm)  
Gold on contact area, Matte Tin on tail

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

**-K**  
= (5.50 mm) .217" DIA Polyimide Film Pick & Place Pad

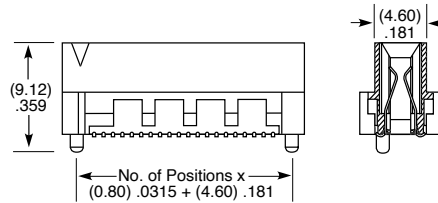
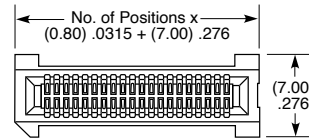
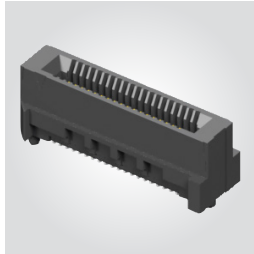
Leave blank for Tray Packaging

**-TR**  
=Tape & Reel Packaging

**-FR**  
= Full Reel Tape & Reel Packaging (Must order max. quantities per reel. Contact Samtec for parts per reel)

**HSEC8-PE**

**Card Mates:**  
(1.60 mm) .062" thick card, HSC8



**ALSO AVAILABLE**

1.00 mm High-Speed Micro Plane Socket. View complete specifications at [samtec.com?SAL1](http://samtec.com?SAL1)

View complete specifications at: [samtec.com?HSEC8-DV](http://samtec.com?HSEC8-DV)

<b>HSEC8</b>	<b>1</b>	<b>SIGNAL POSITIONS</b>	<b>CARD THICKNESS</b>	<b>PLATING OPTION</b>	<b>PV</b>	<b>POWER POSITIONS</b>	<b>POWER TAIL</b>	<b>OTHER OPTION</b>
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20, 30, 40  
(Signal positions per row)

**-01**  
= (1.60 mm) .062" thick card

**-L**  
= 10 μ" (0.25 μm)  
Gold on contact area, Matte Tin on tail

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

**-2, -4**  
(Total, 2 per power bank)

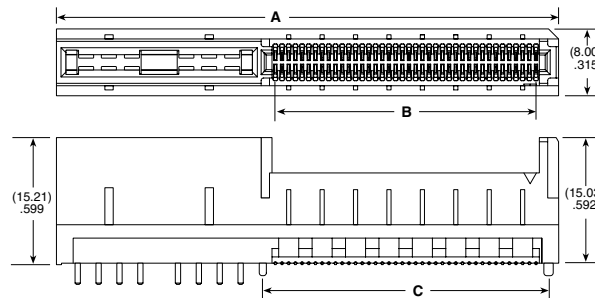
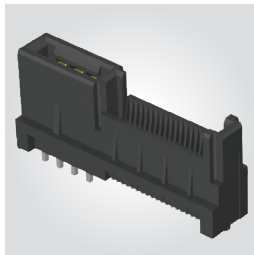
**-1**  
= Use with (1.60 mm) .062" Thick PCB

**-2**  
= Use with (2.36 mm) .093" Thick PCB

**-WT**  
= Weld Tab

**HSEC8-PV**

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



SIGNAL POSITIONS	POWER POSITIONS					
	A (-2)	B (-2)	C (-2)	A (-4)	B (-4)	C (-4)
20	(32.10) 1.264	(15.20) .598	(18.20) .717	(44.10) 1.736	(15.20) .598	(18.20) .717
30	(40.10) 1.579	(23.20) .913	(26.20) 1.031	(52.10) 2.051	(23.20) .913	(26.20) 1.031
40	(48.10) 1.894	(31.20) 1.228	(34.20) 1.346	(60.10) 2.366	(31.20) 1.228	(34.20) 1.346

POWER TAIL	D
-1	(2.35) .093
-2	(3.13) .123

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

View complete specifications at: [samtec.com?HSEC8-PV](http://samtec.com?HSEC8-PV)