

GENERATE[®]

HIGH-SPEED EDGE CARD SYSTEMS

0.60 mm, 0.80 mm and 1.00 mm PITCH

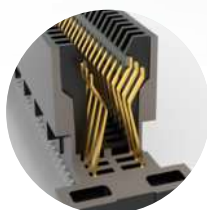
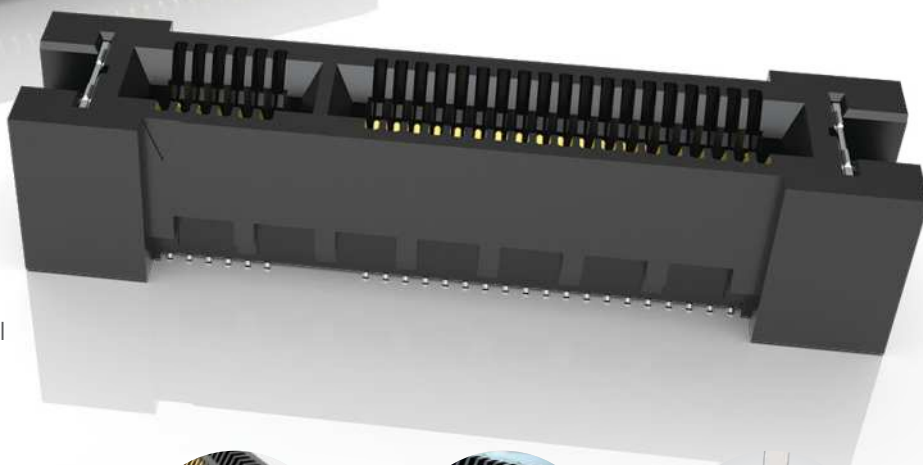


**EDGE
RATE[®]**
CONTACT

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

The PCI Express[®] design marks are registered trademarks and/or service marks of PCI-SIG.



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

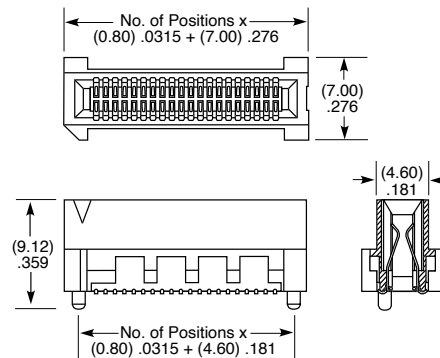
SERIES	PITCH	TOTAL POSITIONS	INSULATOR MATERIAL	CONTACT MATERIAL	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
HSEC6	0.60 mm	56-168	Black LCP	Copper Alloy	-55 °C to +125 °C	1.9 A (2 pins)	240 VAC/339 VDC	Yes
HTEC8	0.80 mm	20-200	Black LCP	Copper Alloy	-55 °C to +125 °C	3.0 A (2 pins)	215 VAC/304 VDC	Yes
HSEC8-DV	0.80 mm	18-200	Black LCP	BeCu	-55 °C to +125 °C	2.8 A (2 pins)	240 VAC/339 VDC	Yes
HSEC8-RA	0.80 mm	18-120	Black LCP	BeCu	-55 °C to +125 °C	2.6 A (2 pins)	175 VAC/247 VDC	Yes
HSEC8-EM	0.80 mm	20-120	Black LCP	BeCu	-55 °C to +125 °C	2.8 A (2 pins)	240 VAC/339 VDC	Yes
HSEC8-PE	0.80 mm	20-40	Black LCP	BeCu	-55 °C to +125 °C	2.8 A (2 pins)	240 VAC/339 VDC	Yes
HSEC8-PV	0.80 mm	40-80	Black LCP	BeCu	-55 °C to +125 °C	3.2 A (2 pins)	215 VAC/304 VDC	Yes
HSEC8-DP	0.80 mm	16-112	Black LCP	BeCu	-55 °C to +125 °C	2.7 A (2 pins)	235 VAC/332 VDC	Yes
HSEC1	1.00 mm	20-140	Black LCP	Phosphor Bronze	-55 °C to +125 °C	2.2 A (2 pins)	215 VAC/304 VDC	Yes

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

HSEC8	1	POSITIONS PER ROW	CARD THICKNESS	PLATING OPTION	DV	A	PE	OTHER OPTIONS	"X"R
		10, 13, 20	-01 = (1.60 mm) .062" thick card	-L = 10 μ" (0.25 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



OTHER SOLUTIONS

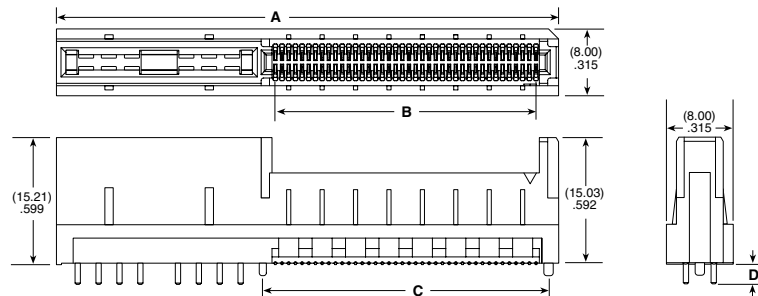
1.00 mm High-Speed Micro Plane Socket.
View complete specifications at samtec.com?SAL1

View complete specifications at: samtec.com?HSEC8-DV

HSEC8	1	SIGNAL POSITIONS	CARD THICKNESS	PLATING OPTION	PV	POWER POSITIONS	POWER TAIL	OTHER OPTION
		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		-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