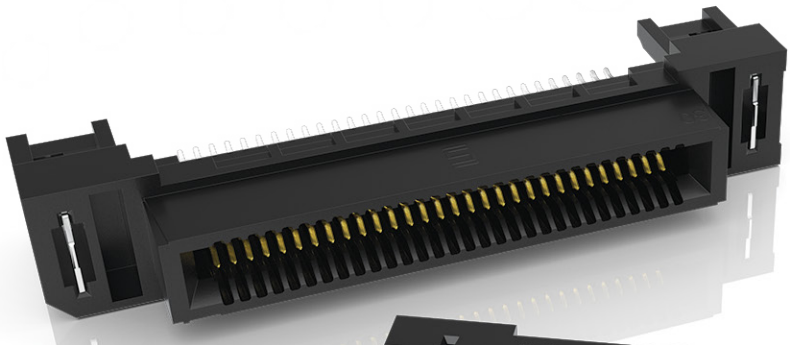
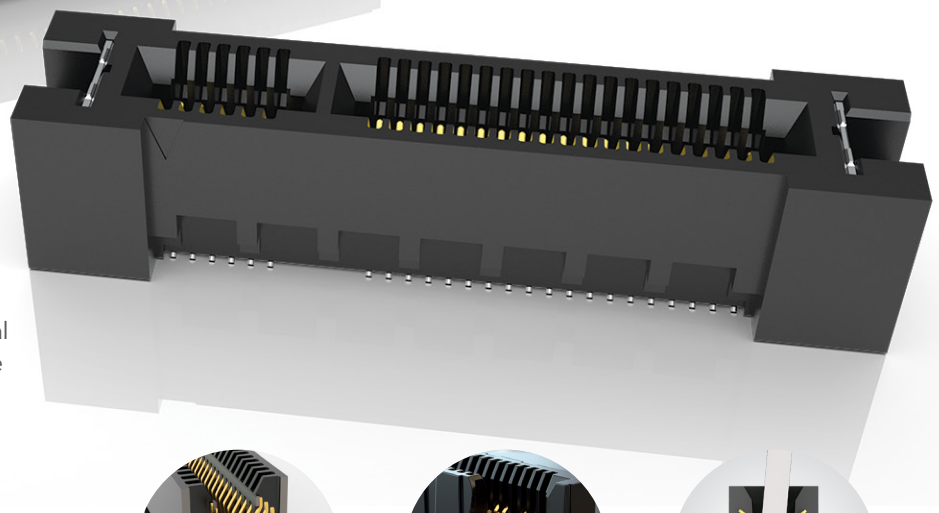
GENERATE®

HIGH-SPEED EDGE CARD SYSTEMS

0.60 mm, 0.80 mm and 1.00 mm PITCH



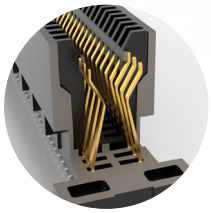


EDGE® RATE CONTACT

FEATURES & BENEFITS

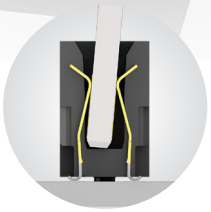
- Maximum Design Flexibility
- Up to 64 Gbps PAM4 performance
- PCI Express® 3.0, 4.0, 5.0 and 6.0
- Edge Rate® contacts optimized for signal integrity performance and high-cycle life
- Up to 200 positions available
- Vertical, right-angle, edge mount, pass-through orientations
- Power/signal combo, 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

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

GENERATE®

NRZ 28 Gbps

samtec

(0.80 mm) .0315" PITCH • VERTICAL EDGE CARD SOCKET

HSEC8	-	1	POSITIONS PER ROW	-	CARD THICKNESS	-	PLATING OPTION	-	DV	-	A	-	OTHER OPTIONS	-	"X"R

09, 10, 13, 20, 25, 30, 37, 40, 49, 50, 60, 70, 80, 100
(13, 25, 49 only available with -L or -L2 latching option; 09 only available with -L2 option; 37 only available with -L latching option)

–01
= (1.60 mm) .062" thick card

–03
= (2.36 mm) .093" thick card

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

–K
= Polyimide Pick & Place Pad

–BL
= Board Locks; –01 card only (Weld tab standard)

–L
= Latching Option; –01 card only (13, 25, 37, 49 only) (Weld tab standard)

–L2
= ECDP Latching; –01 card only (09, 13, 25, 49 only) (For use with ECDP) (Weld tab standard)

–WT
= Weld tab

Leave blank for Tray Packaging

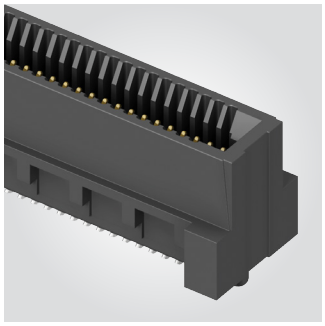
–TR
= Tape & Reel (09 - 70 only)

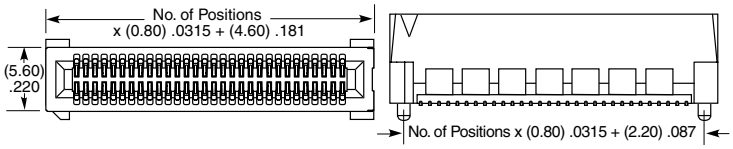
–FR
= Full Reel Tape & Reel (must order max. quantities per reel; contact Samtec for quantity breaks) (09-70 only)

HSEC8-DV

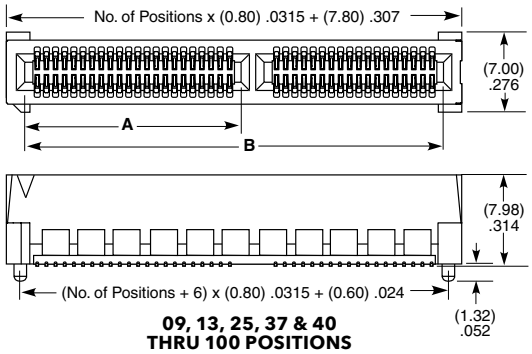
Card Mates:
(1.60 mm) .062" thick card,
(2.36 mm) .093" thick card,
HSC8

Cable Mates:
ECDP





10, 20, & 30 POSITIONS



09, 13, 25, 37 & 40 THRU 100 POSITIONS

OTHER SOLUTIONS

For complete edge card system with cards and sockets, visit samtec.com?RU8

For a card to mate with an HSEC8 socket, visit samtec.com?HSC8

10 YEAR MFG
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

POSITIONS PER ROW	A	B
09*†	(4.50) .177	(11.80) .465
13*†	(6.10) .240	(15.00) .591
25*†	(6.10) .240	(24.60) .969
37†	(18.10) .713	(34.20) 1.346
40	(18.90) .744	(36.60) 1.441
49*†	(22.90) .902	(43.80) 1.724
50	(22.90) .902	(44.60) 1.756
60	(26.90) 1.059	(52.60) 2.071
70†	(26.90) 1.059	(60.60) 2.386
80†	(26.90) 1.059	(68.60) 2.701
100†	(26.90) 1.059	(84.60) 3.331

Positions where no dimensions are given do not have keying feature.

* Mates with ECDP Series

† Available with -01 Card Only

CABLE	CONNECTOR
ECDP-04	HSEC8-109-L2
ECDP-08	HSEC8-113-L2
ECDP-16	HSEC8-125-L2
ECDP-32	HSEC8-149-L2

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

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

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