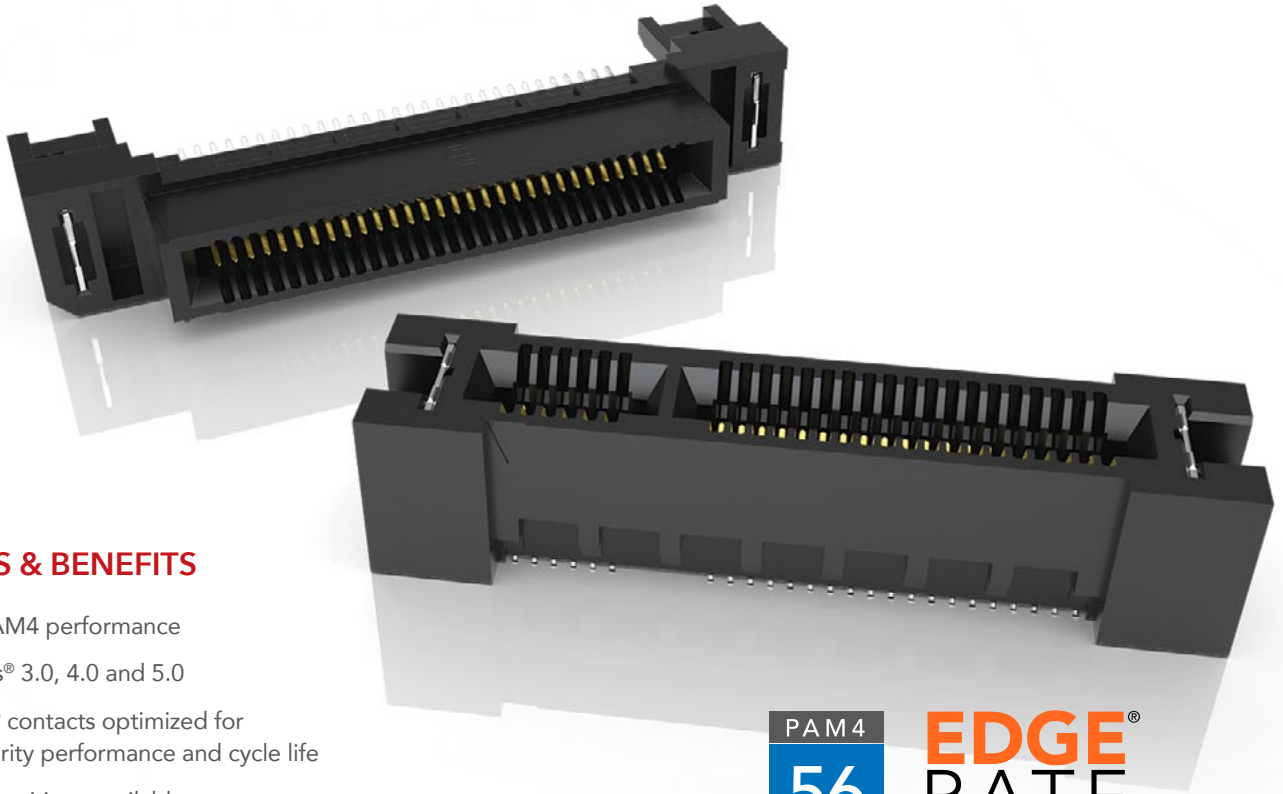


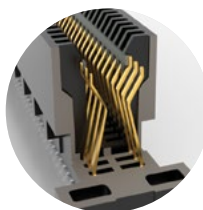
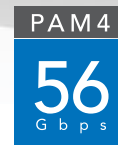
# HIGH-SPEED EDGE CARD SYSTEMS

0.60 mm, 0.80 mm and 1.00 mm PITCH



## FEATURES & BENEFITS

- 56 Gbps PAM4 performance
- PCI Express® 3.0, 4.0 and 5.0
- Edge Rate® contacts optimized for signal integrity performance and 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



Rugged tuck beam technology (HTEC8)



Differential pair for increased speed (HSEC8-DP)



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

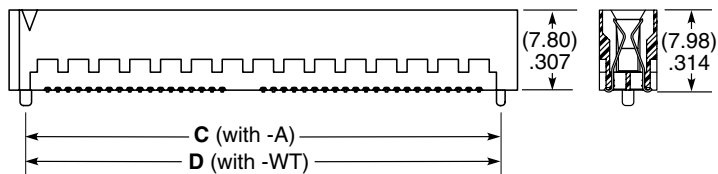
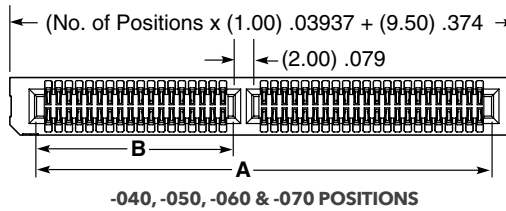
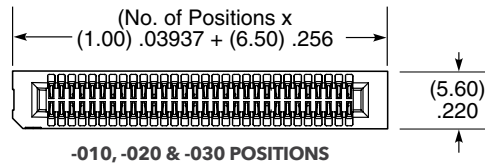
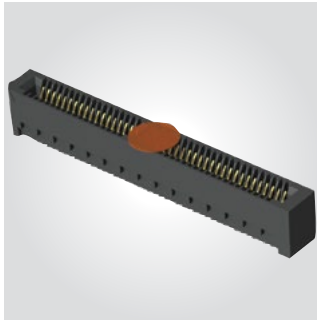
## KEY SPECIFICATIONS

| 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    | 0.8 A (12 pins) | 300 VAC        | Yes                  |
| HTEC8  | 0.80 mm | 40-200          | 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                  |

**1.00 mm (.0394") PITCH • VERTICAL HIGH-SPEED EDGE CARD**

| HSEC1 | POSITIONS PER ROW                                 | CARD THICKNESS                        | PLATING OPTION                                                                                                                                           | DV | OPTION                                                                                                                                            | OTHER OPTIONS                                                                                                                                                                                                                                                                                      |
|-------|---------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | -010, -020,<br>-030, -040,<br>-050, -060,<br>-070 | -01<br>=(1.60 mm) .062"<br>thick card | -L<br>= 10 μ" (0.25 μm)<br>Gold on contact<br>area, Matte Tin<br>on tail<br><br>-S<br>= 30 μ" (0.76 μm)<br>Gold on contact<br>area, Matte Tin<br>on tail |    | -A or -WT<br>required in callout<br><br>-A<br>=Alignment Pin<br>(Not available<br>with -WT)<br><br>-WT<br>=Weld tab<br>(Not available<br>with -A) | -K<br>=(7.01 mm) .276" DIA<br>Polyimide Film<br>Pick & Place Pad<br><br>-TR<br>=Tape & Reel<br>(Required for<br>10-60 positions)<br><br>-FR<br>= Full Reel<br>Tape & Reel<br>(must order max.<br>quantity per reel;<br>contact Samtec for<br>quantity breaks)<br>(Required for<br>10-60 positions) |

**HSEC1-DV**  
**Card Mates:**  
(1.60 mm) .062"  
thick card



| POSITIONS PER ROW | A             | B             | C<br>(with -A) | D<br>(with -WT) |
|-------------------|---------------|---------------|----------------|-----------------|
| -010              | (11.30) .445  | N/A           | (13.25) .522   | (14.50) .571    |
| -020              | (21.30) .839  | N/A           | (23.25) .915   | (24.50) .965    |
| -030              | (31.30) 1.232 | N/A           | (33.25) 1.309  | (34.50) 1.358   |
| -040              | (44.30) 1.744 | (19.15) .754  | (46.25) 1.821  | (47.50) 1.870   |
| -050              | (54.30) 2.138 | (24.15) .951  | (56.25) 2.215  | (57.50) 2.264   |
| -060              | (64.30) 2.531 | (29.15) 1.148 | (66.25) 2.608  | (67.50) 2.657   |
| -070              | (74.30) 2.925 | (34.15) 1.344 | (76.25) 3.002  | (77.50) 3.051   |

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

View complete specifications at: [samtec.com?HSEC1-DV](https://www.samtec.com?HSEC1-DV)

# Mouser Electronics

Authorized Distributor

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[HSEC1-010-01-L-DV-WT-K-TR](#) [HSEC1-010-01-L-DV-WT-TR](#) [HSEC1-010-01-S-DV-A-K-TR](#) [HSEC1-010-01-S-DV-WT-](#)  
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[K-TR](#) [HSEC1-040-01-L-DV-A-K-TR](#) [HSEC1-040-01-L-DV-A-TR](#) [HSEC1-020-01-L-DV-A-K-TR](#) [HSEC1-020-01-L-DV-A-](#)  
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