



# HIGH-DENSITY COPPER FLYOVER<sup>®</sup> SYSTEM



## FEATURES & BENEFITS

- Pin compatible with optical FireFly™ using the same connector system
- Data connection is taken "off board" for easier routing
- Low-cost solution for seamless integration of new and existing designs
- Low-profile housing for space savings
- x4 bidirectional or x12 unidirectional
- Variety of end 2 termination options

<b>14</b> G b p s	x4 Bidirectional ECUE x12 Unidirectional ECUE
<b>PAM 4</b>	
<b>56</b> G b p s	x4 Bidirectional ECUE-2



### Standard Copper (ECUE)

- 14 Gbps
- 100 Ω, 34 AWG or 36 AWG Eye Speed<sup>®</sup> twinax cable



### Optimized Copper (ECUE-2)

- 28 Gbps card design
- 100 Ω, 34 AWG Eye Speed<sup>®</sup> ultra low skew twinax cable
- Optimized for use with connector UEC5-2



### PCI Express<sup>®</sup>-Over-FireFly<sup>™</sup> Copper (PCUE)

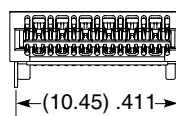
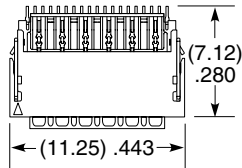
- PCIe<sup>®</sup> 4.0
- 100 Ω, 34 AWG Eye Speed<sup>®</sup> ultra low skew twinax cable
- Optimized for use with connector UEC5-2

## RUGGED MICRO FLYOVER® SOCKET SYSTEM

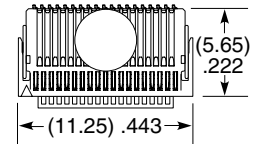
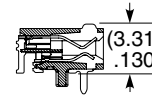
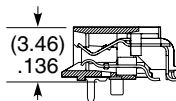
UEC5	NO. OF POSITIONS	DATA RATE	PLATING OPTION	D	RA	WELD TAB	OPTION	PACKAGING
	-019 (Per Row)	-1 = Up to 16 Gbps -2 = 28 Gbps+	-H = 30 μ" (0.76 μm) Gold on contact, Gold flash on tail (-1 Data Rate only) -H = 30 μ" (0.76 μm) Gold on contact, Matte Tin on tail (-2 Data Rate only)			-1 = Through-hole -2 = Surface Mount (Data Rate -1 only)	Leave blank for -2 Data Rate -A = Alignment Pin (Available with Data Rate -1 only)	Leave blank for Tape & Reel -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

### UEC5

**Board Mates:**  
ECUE, ECUO,  
PCUO, PCUE,  
ETUO



UEC5-019-2-X-D-RA-1



UEC5-019-1-X-D-RA-1-A

**Note:**  
PCB footprints are not interchangeable for -1 and -2 data rate versions.

View complete specifications at: [samtec.com?UEC5-1](http://samtec.com?UEC5-1) & [samtec.com?UEC5-2](http://samtec.com?UEC5-2)

UCC8	NO. OF POSITIONS	1	PLATING OPTION	S	WELD TAB	A	PACKAGING
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-010

-H  
= 30 μ" (0.76 μm)  
Gold on contact,  
Gold flash on tail

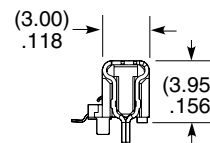
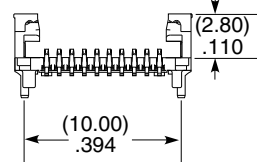
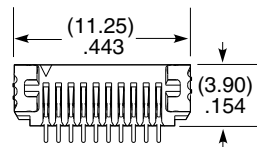
-1  
= Through-hole

Leave blank for Tape & Reel

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

### UCC8

**Board Mates:**  
ECUE, ECUO,  
PCUO, PCUE,  
ETUO



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

View complete specifications at: [samtec.com?UCC8](http://samtec.com?UCC8)