FIRE**FLY**™

HIGH-DENSITY COPPER FLYOVER® 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

14 Gbps	x4 Bidirectional ECUE x12 Unidirectional ECUE

PAM4	
56 Gbps	x4 Bidirectional ECUE-2

Standard Copper (ECUE)

- 14 Gbps
- 100 Ω, 34 AWG or 36 AWG Eye Speed® twinax cable

Optimized Copper (ECUE-2)

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

PCI Express®-Over-FireFly™ Copper (PCUE)

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

samtec.com/FireFly

FIREFLY™

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

(7.12) .280

(11.25) .443

(5.65) .222

(11.25) .443

(3.46) .136

(10.45) .411

(3.31) .130

(10.45) .411
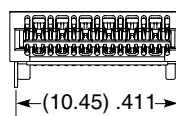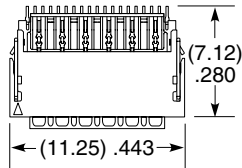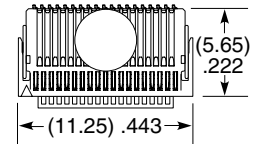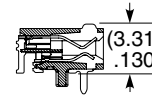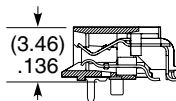
UEC5-019-2-X-D-RA-1

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 & **samtec.com?UEC5**-2

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

–010

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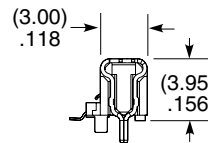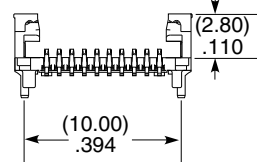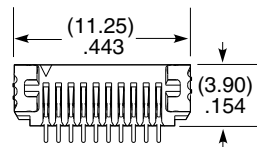= 30 µ" (0.76 µm) Gold on contact, Gold flash on tail

–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

(11.25) .443

(3.90) .154

(2.80) .110

(10.00) .394

(3.00) .118

(3.95) .156

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

View complete specifications at: **samtec.com?UCC8**