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

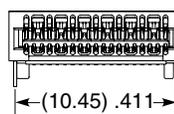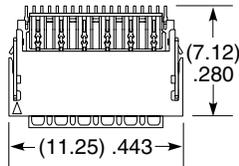### PCI Express®-Over-FireFly™ Copper (PCUE)

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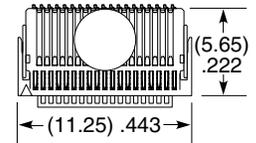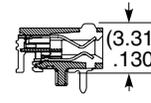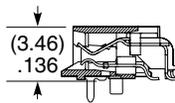
RUGGED MICRO FLYOVER® SOCKET SYSTEM

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

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

(7.12) .280

(11.25) .443

(3.46) .136

(10.45) .411

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

(5.65) .222

(11.25) .443

(3.31) .130

(10.45) .411

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

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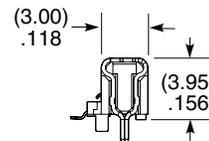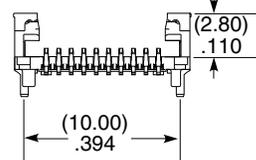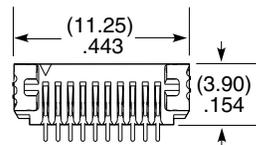= 30 μ" (0.76 μm)
Gold on contact,
Gold flash on tail

–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**

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