



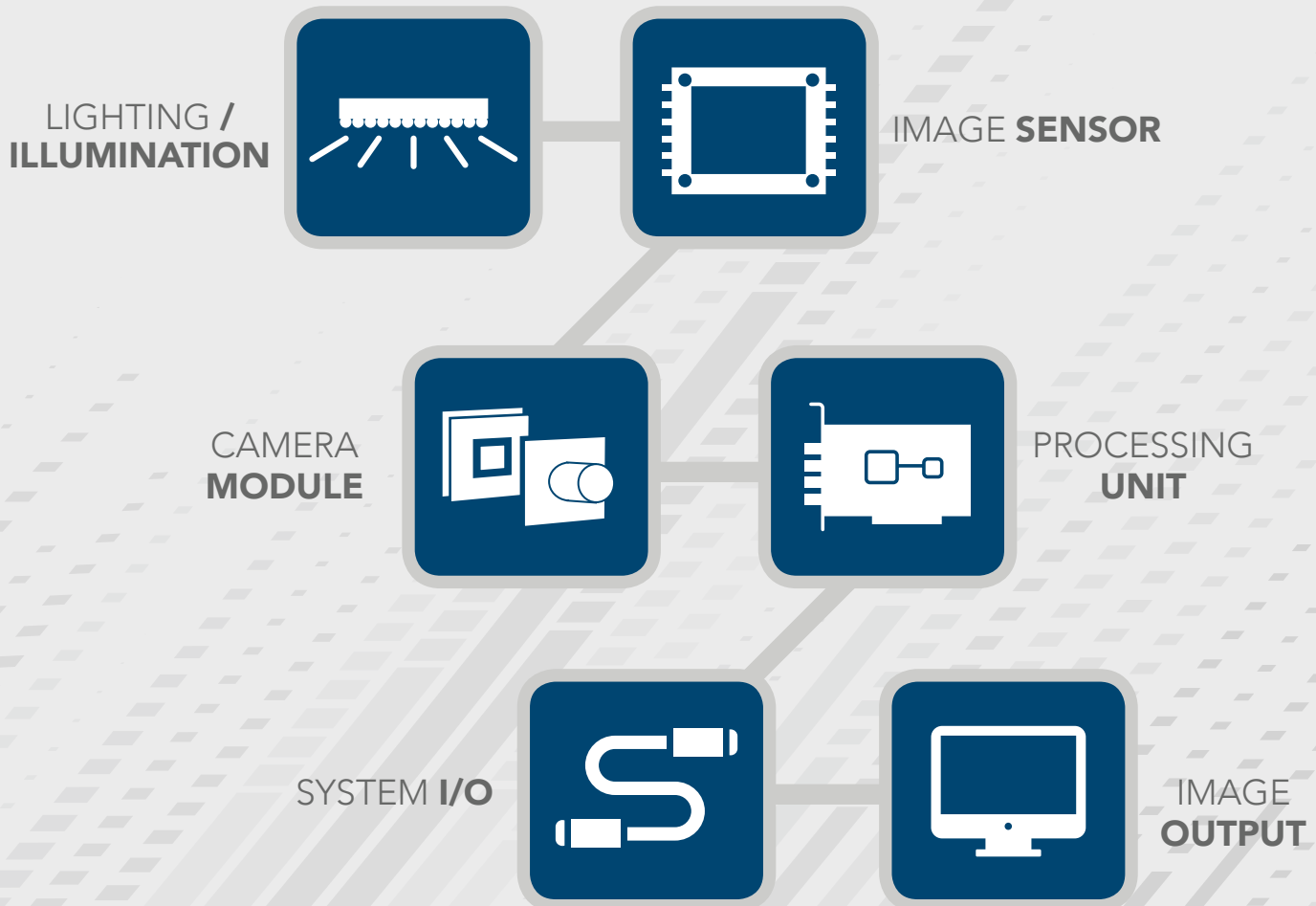
EMBEDDED VISION SOLUTIONS

INTERCONNECTS FOR HIGH-PRECISION VISION SYSTEMS

EMBEDDED **VISION**

Samtec **PRODUCT INNOVATIONS** and **TECHNICAL SUPPORT**
enabling all aspects of a vision system.

Samtec offers a wide variety of product solutions that enable vision system technology,
in addition to providing the highest level of service and support in the industry.



APPLICATIONS

ADAS/LIDAR



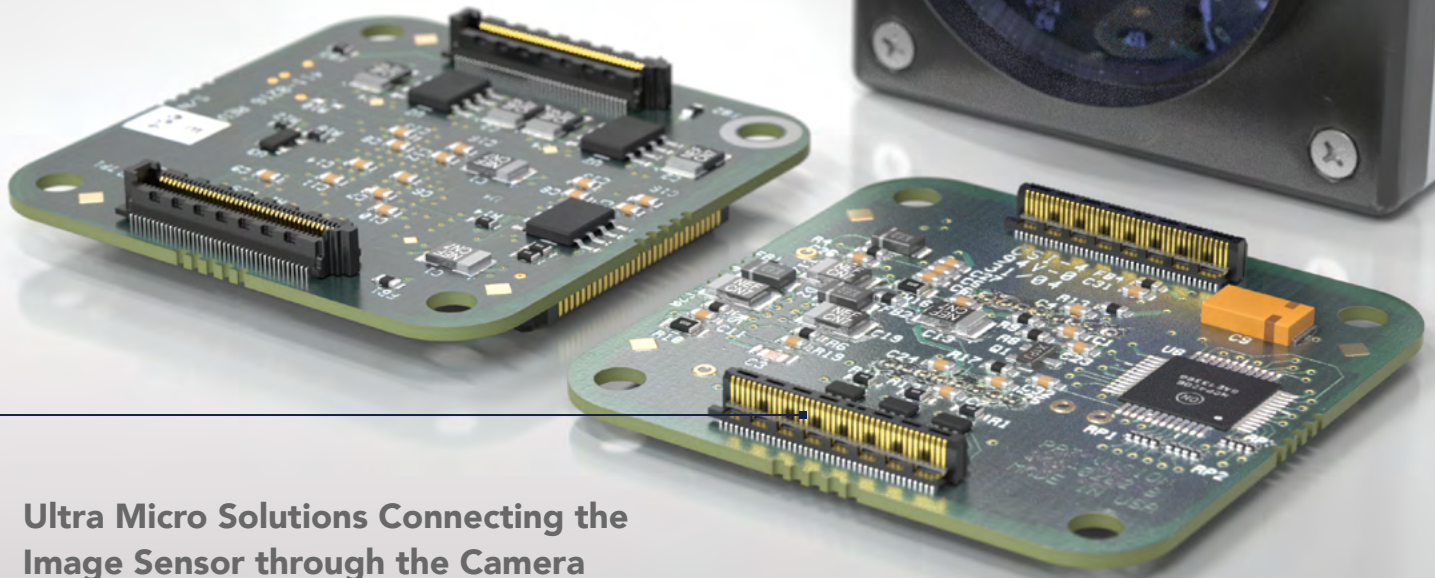
VISUAL INSPECTION



UAV/DRONES



Space Saving Design with Higher Data Rates

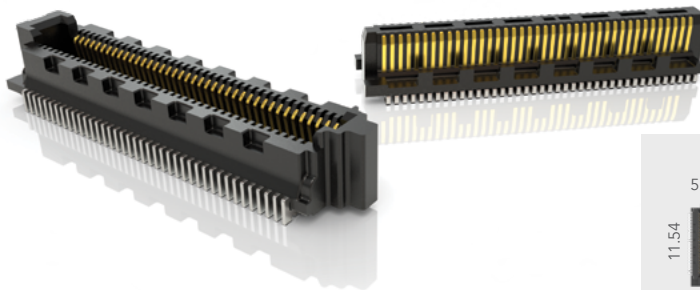


**Ultra Micro Solutions Connecting the
Image Sensor through the Camera**

RAZOR BEAM™ LP

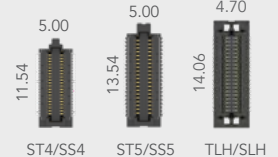
- Ultra-fine pitch: 0.40 mm or 0.50 mm
- Ultra-low profile, slim body designs
- Stack heights down to 2 mm
- Jack screw standoffs (JSO Series) available for unmating assistance and protection from component damage

samtec.com/ultra-micro



**RAZOR™
BEAM LP**
SYSTEM

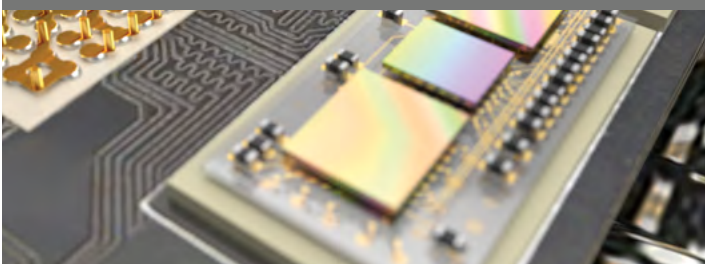
NRZ
28
Gbps



at 20 positions per row

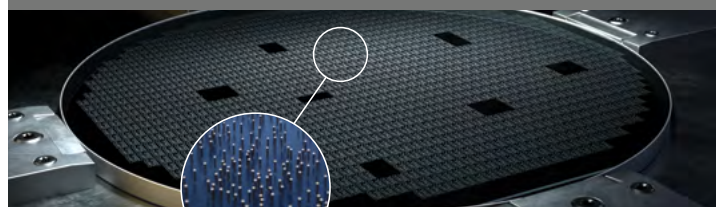
HETEROGENEOUS PACKAGE INTEGRATION

Integrating CMOS Image Sensor with Image Processor Die



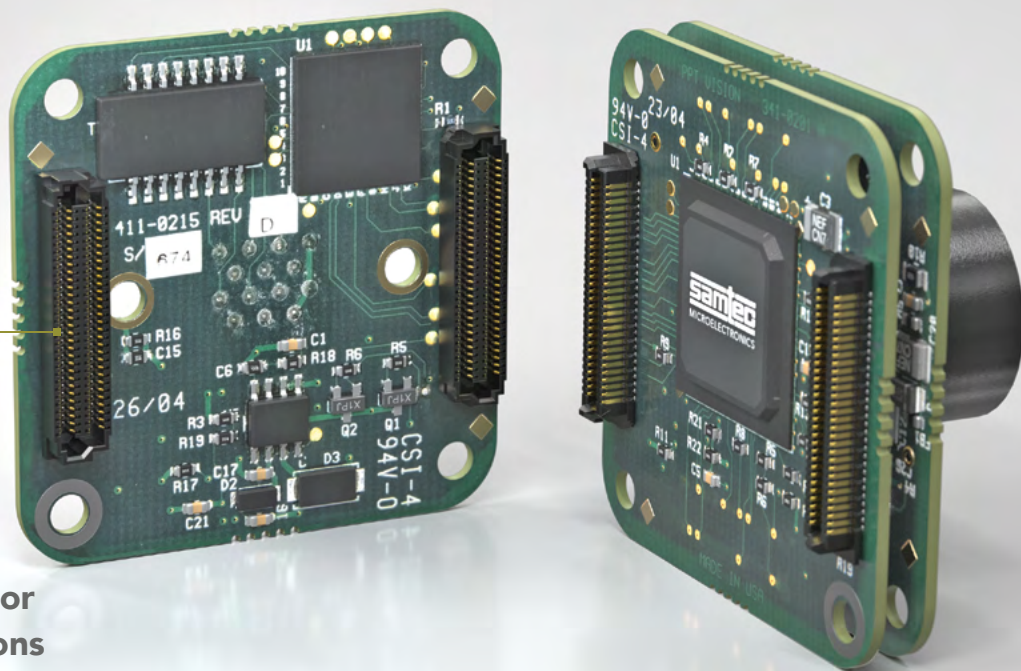
PACKAGE MINIATURIZATION

Low-Profile and Small Footprints



Contact SME@samtec.com

Rugged, High-Speed Strips with Full Engineering Support



High-Speed Strips ideal for High-Vibration Applications

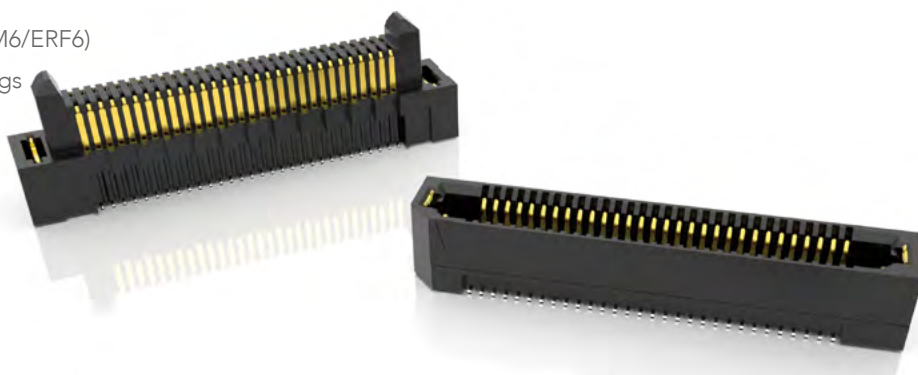
EDGE RATE®

- Rugged contact system decreases crosstalk, increases cycle life, optimizes SI performance
- 0.635 mm pitch - slim 2.5 mm body width (ERM6/ERF6)
- 0.50 mm pitch (ERM5/ERF5) - 40% space savings vs 0.80 mm pitch option
- 0.80 mm pitch (ERM8/ERF8) up to 200 I/Os
- 1.0 or 1.5 mm contact wipe
- 360° shielding

**EDGE
RATE®**
SYSTEM

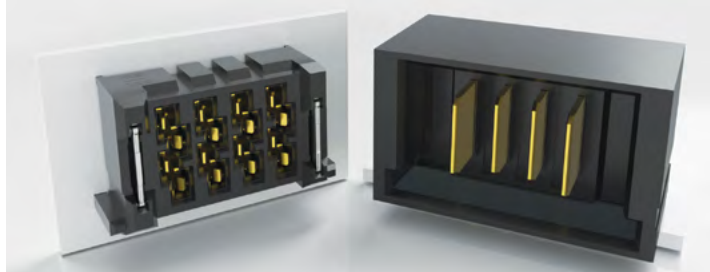
NRZ
28
Gbps

samtec.com/connectors



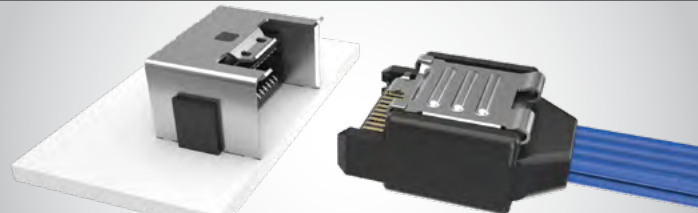
ULTRA MICRO POWER

2 mm Pitch & Low-Profile, 15 A per Blade



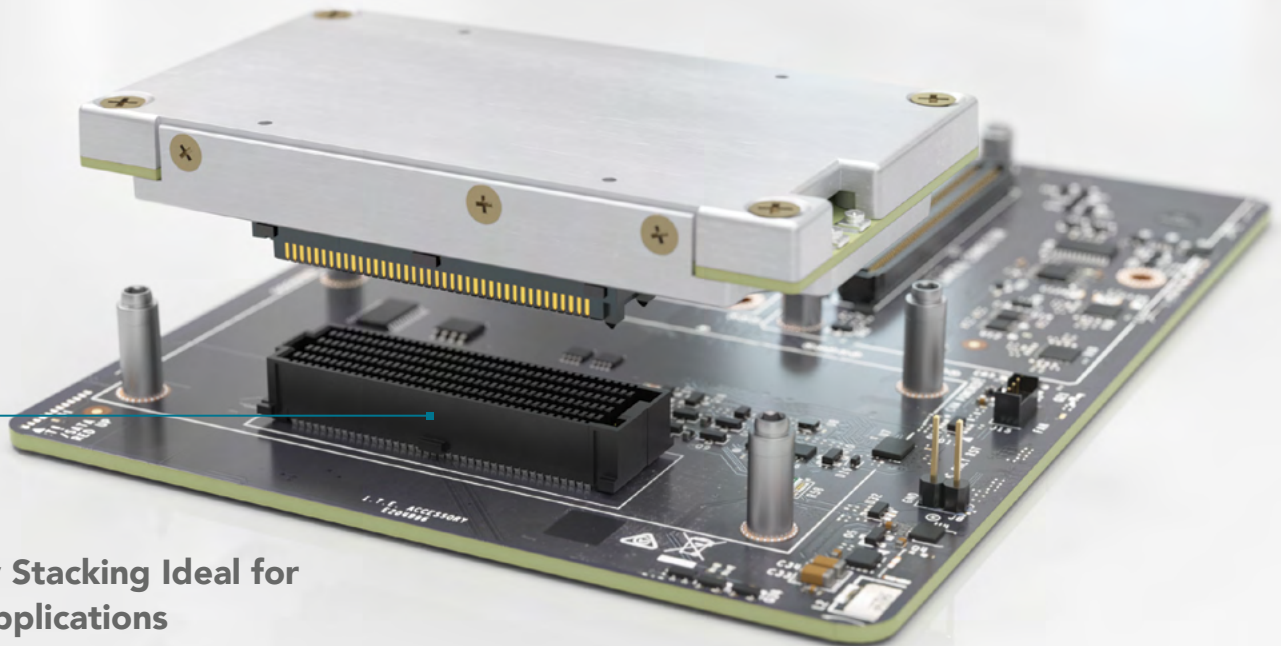
MICRO COAX/TWINAX

Application Specific Solutions Inside the Camera Module



samtec.com/high-speed-cables

Hundreds of I/Os with Performance to 28 Gbps NRZ



High-Density Stacking Ideal for SoM/CoM Applications

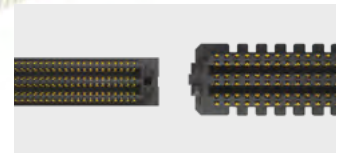
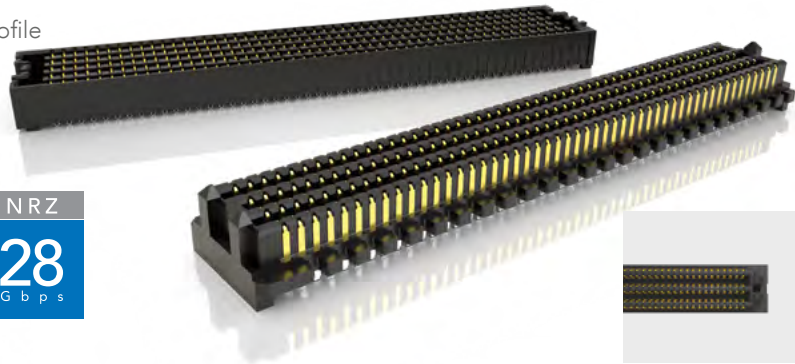
SEARAY™

- Open-pin-field array, providing maximum grounding and routing flexibility (DP, SE, Power)
- Variety of configurations, including low-profile
- Up to 720 I/Os
- Rugged Edge Rate® contacts

samtec.com/arrays

SEARAY™

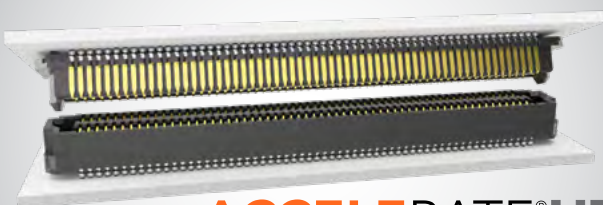
NRZ
28
Gbps



0.80 mm vs. 1.27 mm

ACCELERATE® HD

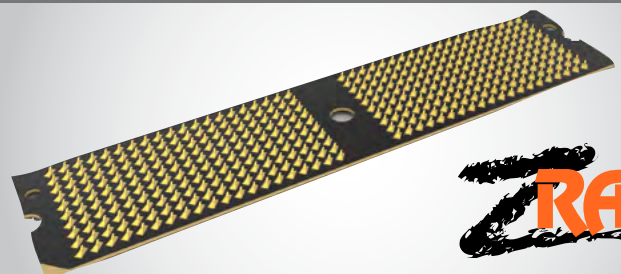
Ultra-Dense, High-Speed Multi-Row Mezzanine Strip



ACCELERATE® HD

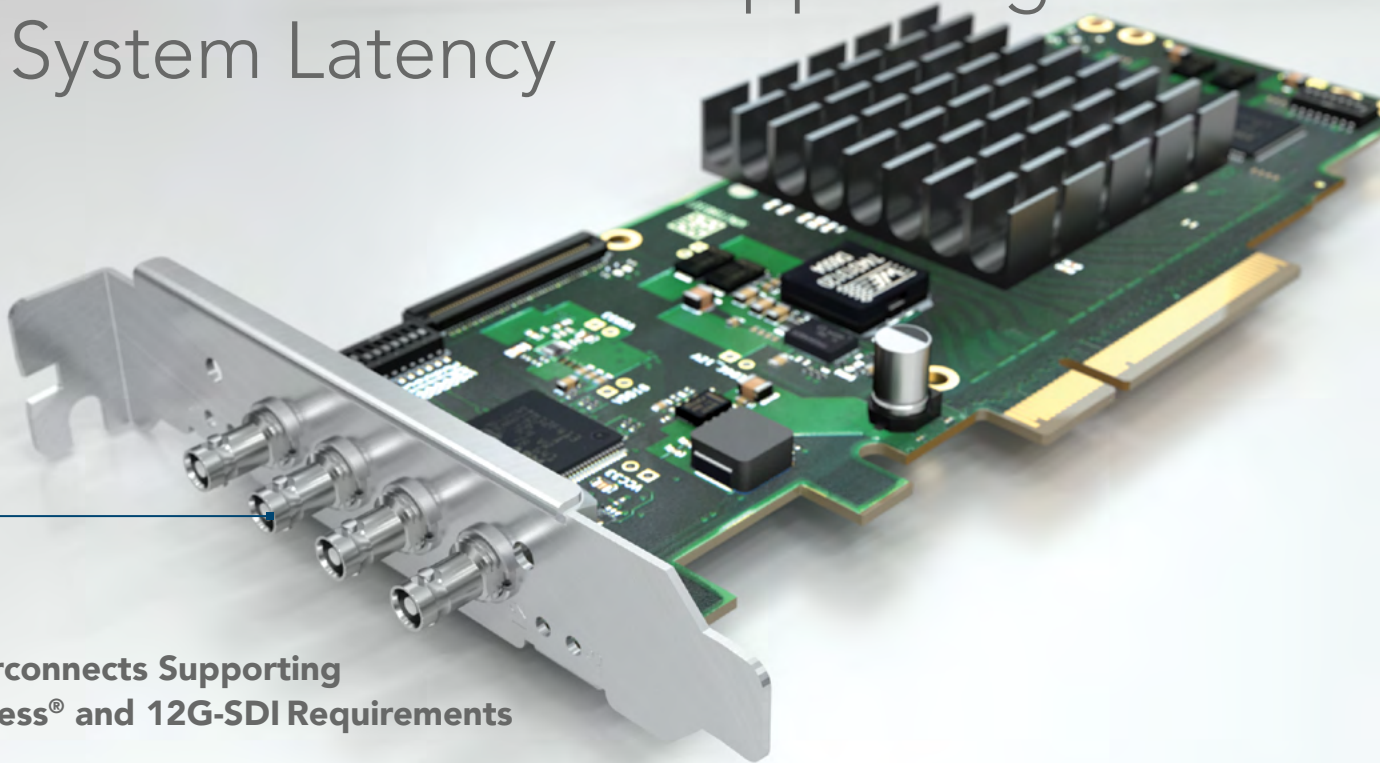
Z-RAY®

Ultra-Low-Profile One-Piece Array, Custom Geometries



Z-RAY®

High-Performance I/O Supporting Low System Latency



RF Interconnects Supporting CoaXPress® and 12G-SDI Requirements

HD-BNC™, DIN 1.0/2.3, BNC

- Rugged mechanical latching: HD-BNC™ and BNC
- Space-saving design: HD-BNC™ and DIN 1.0/2.3
- 12G-SDI performance: HD-BNC™, DIN 1.0/2.3, BNC

samtec.com/RF

CoaXPress®

12GSDI



FIREFLY™

Mid-board Optical Engines Provide I/O to 28 Gbps



NRZ
28
Gbps

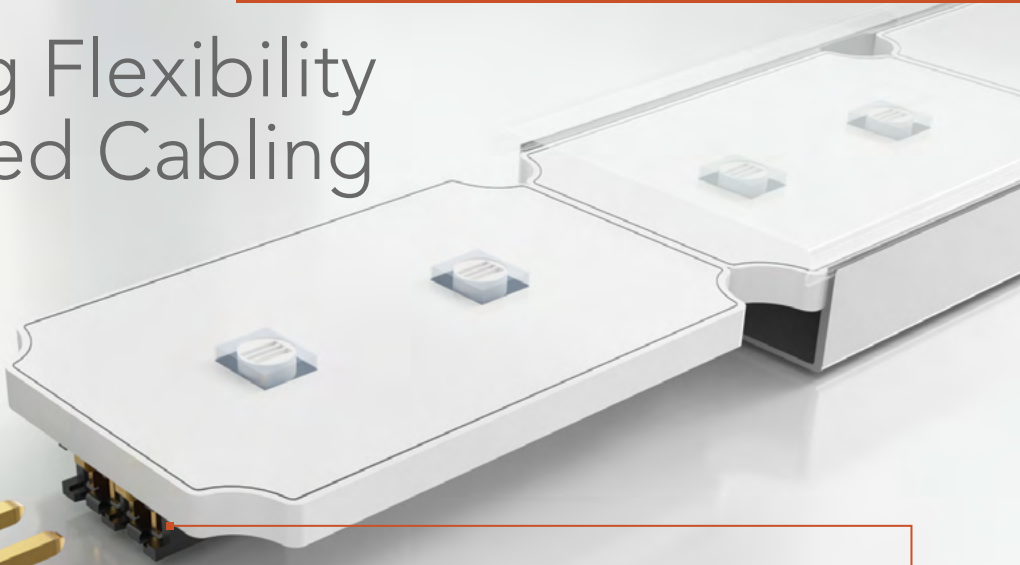
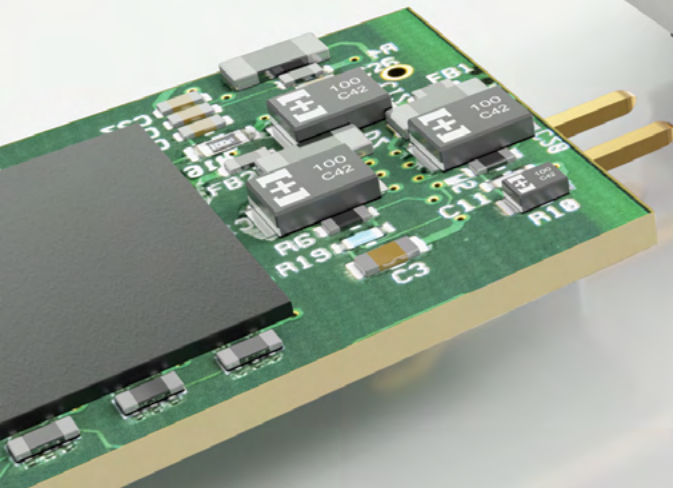
samtec.com/firefly

EDGE CARD VARIETY

0.50 mm to 2.00 mm Pitch, PCI Express® Sockets



Board Stacking Flexibility & Micro/Rugged Cabling

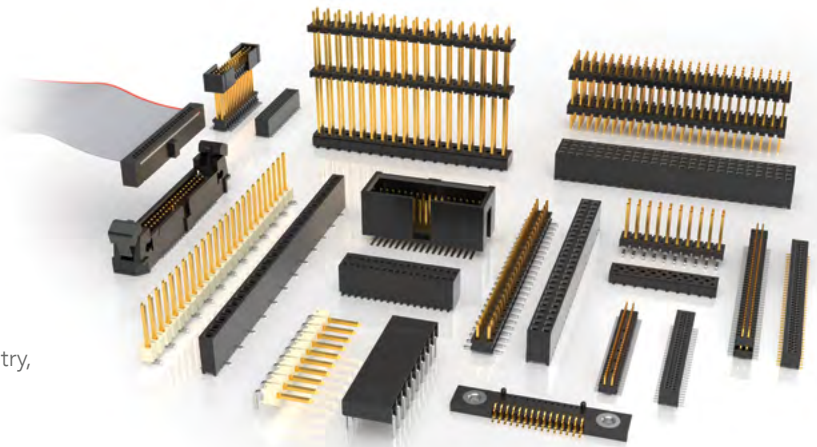


**Interconnects for
Lighting Units that Optimize
Life-Span and Functionality**

samtec.com/FlexibleStacking

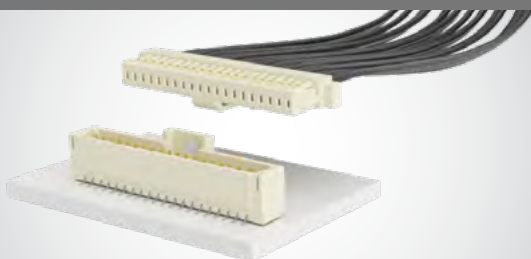
FLEXIBLE STACKING

- Headers and sockets with the most flexibility in the industry
- Pitch variety from 0.80 mm to 2.54 mm
- Post height: adjustable in .005" increments
- Body positions: adjustable in .005" increments
- Board stacking distance: 1.65 mm to 48.51 mm
- Pins: 1 to 300
- Termination: surface mount, through-hole, press-fit, mixed-technology
- Applications: right-angle, pass-through, bottom-entry, one-piece, low-profile, elevated, self-nesting
- Easily customizable



DISCRETE WIRE

0.80 mm to 6.35 mm Pitch, 32 to 10 AWG, Power: 3 to 35 A/Contact



IP67/IP68 SOLUTIONS

Bayonet/Push-Pull Circulars, Space-saving Rectangulars





samtec

SUDDEN SERVICE®

SAMTEC.COM

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 GERMANY • FRANCE • ITALY • NORDIC/BALTIC • BENELUX • ISRAEL • INDIA • AUSTRALIA / NEW ZEALAND
 SINGAPORE • JAPAN • CHINA • TAIWAN • HONG KONG • KOREA

OCTOBER 2018