



PHASED ARRAY SYSTEMS

Samtec delivers Sudden Service® solutions for standard and application-specific military and aerospace designs to meet the stringent quality, production and compliance requirements of our customers. The combined efforts of Samtec's on-going Severe Environment Testing initiative with our extremely flexible high-speed interconnects provides a quick turn and cost-effective solution for military and aerospace applications that require reliable performance and durability. For more information, please visit samtec.com/milaero or contact Military@samtec.com.

APPLICATIONS INCLUDE:

- Cockpit communications
- Missile defense
- SatCom
- Jamming Equipment
- 5G MIMO antennas
- Early warning radar systems
- Land based phased array radar
- In-flight phased array radar
- Naval ship phased array radar



RUGGEDIZING SOLUTIONS:

COTS, ASP or MAP interconnect solutions with a wide variety of rugged features to ensure quality and durability in any application.

- Jack Screws
- Positive Latching
- Friction Locks
- Retention Pins
- Board Locks
- Weld Tabs
- Guide Posts
- Shielding
- Screw Downs
- Board Standoffs



SEVERE ENVIRONMENT TESTING

Severe Environment Testing (SET) is a Samtec initiative to test products beyond typical industry standards and specifications, many set forth by common requirements for rugged / harsh environment industries. These products undergo additional testing to ensure they are more than suitable for military, space, automotive, industrial and other extreme applications.

Visit samtec.com/SET or contact set@samtec.com for additional information and current available test results.

MIL/AERO PHASED ARRAY SOLUTIONS



Rugged Optics - FireFly™

Series: ETUO, ECUO, UEC5, UCC8
FireFly™ Micro Flyover System™ is a future proof, inside-the-box interconnect solution, with performance to 28 Gbps per lane and a path to 112 Gbps PAM4. The Samtec Optical Group designs, manufactures and supports bleeding edge optical solutions.



High-Speed Cable

Series: ARF6/ARC6, FQSFP, QSFP
High-speed cable assemblies with micro coax and ultra low skew twinax cable, for differential and single-ended applications. Assemblies include Flyover®, high-density array, integral ground plane, hermaphroditic, rugged Edge Rate® and high-speed PCI Express® systems.



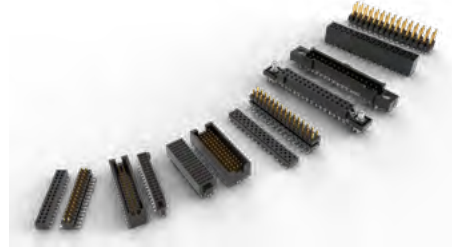
RF

Series: SMPM, SMP, IP5
RF interconnects for frequencies up to 110 GHz; 50 Ohm and 75 Ohm impedance; push-on, threaded or bayonet coupling; cable assembly, cable connector and board level applications.



High-Speed Board-to-Board

Series: HSEC6, ERF6/ERM6, SEAF/SEAM, ADF6/ADM6, LPAF/LPAM, NVAF/NVAM
Mezzanine systems with integral ground planes, high-density arrays, rugged signal integrity optimized Edge Rate® systems and high-speed performance up to 56 Gbps NRZ/112 Gbps PAM4.



Micro Rugged

Series: SFM/TFM, SFC/TFC, SEM/TEM, LSHM/HLCD, CLP/FTSH, SMM/TMM
Micro pitch interconnects with high-reliability Tiger Eye™ and rugged Edge Rate® contact systems for high mating cycles, high-shock and vibration applications.



Standards

Series: YFX, SEAX, QFX, ESQ
Rugged Tiger Eye™ systems in a variety of pitches and heights. Configurable high-density arrays, integral ground planes, advanced height mezzanine, and high-speed stacking architectures.

MIL/AERO PRODUCT SOLUTIONS

COMMERCIAL OFF-THE-SHELF (COTS)

- Certified ISO-9001
- Cost-Effective
- Short Lead-Times
- No Minimum Order Quantity
- Full Qualification Testing Online

ADDITIONAL CAPABILITIES

Up to 30 μ" Gold
Tin Lead
-55 °C to +125 °C operating temperature on most connectors; -40 °C to +125 °C on THV/FEP cables

APPLICATION SPECIFIC PRODUCT (ASP)

- Modified COTS Built to Samtec's Print
- AS9102 FAI Available
- Non-Standard Options Available
- Similar Part Qualification Testing Online

ADDITIONAL CAPABILITIES

Customer specified plating (up to 50 μ" Gold, Tin Lead)
Non-standard product options

MILITARY/AEROSPACE PRODUCT (MAP)

- Modified COTS Built to Samtec's Print
- Manufacturing Location Control Available
- Product Specification Control Available
- Non-Standard Options Available
- AS9102 FAI Available
- ITAR Control Available

ADDITIONAL CAPABILITIES

Customer specified plating (up to 50 μ" Gold, Tin Lead)
Non-standard product options
ITAR control available