



# 5G/6G WIRELESS

Samtec cable and connector products reliably deliver the necessary performance for 5G and 6G wireless systems. Our Sudden Service® support, evaluation boards, and online tools can help optimize emerging designs such as those using edge computing and AI/ML technologies for intelligent RF selection. For more information, visit [samtec.com/5g](https://samtec.com/5g) or contact [ASG@samtec.com](mailto:ASG@samtec.com).

## Product Features & Benefits

- High-frequency / low latency systems
- Small form factors / ultra-high densities
- High performance test systems
- Signal integrity-optimized solutions
- Extended signal reach

## Design & Development Support

- Free online tools & resources
- RF technical support for launch optimization, simulation and test & measurement
- Industry leading component and system-level engineering expertise
- Express modification and engineered custom products



## RF DESIGN, DEVELOPMENT & TECHNICAL SUPPORT

Samtec offers high-quality RF products from design and fabrication to technical support.

- Launch optimization & design services
- Simulation
- Prototyping
- Physical test and measurement verification

Contact Samtec's RF Group at [RFGroup@samtec.com](mailto:RFGroup@samtec.com) for assistance.

## EVALUATION & DEVELOPMENT KITS

Samtec-designed kits simplify the interconnect design process and reduce time to market.

Kits are tested and verified by Samtec's signal integrity experts before customer delivery.

Visit [samtec.com/kits](https://samtec.com/kits) or contact [KitsAndBoards@samtec.com](mailto:KitsAndBoards@samtec.com).

## SIGNAL INTEGRITY SUPPORT

Samtec is the industry leader in Signal Integrity. Our mission is to help you attain full system optimization - from Silicon-to-Silicon™.

- Full channel analysis
- System optimization recommendations
- PDN simulations
- Advanced product design support

Visit [samtec.com/sig](https://samtec.com/sig) or contact [SIG@samtec.com](mailto:SIG@samtec.com).

## ONLINE TOOLS

**Solutionator®:** Quickly build mated connector sets or design full cable assemblies



[samtec.com/rf-cablebuilder](https://samtec.com/rf-cablebuilder)



[samtec.com/cablebuilder](https://samtec.com/cablebuilder)



[samtec.com/optics-solutionator](https://samtec.com/optics-solutionator)

**Picture Search:** Browse through Samtec's most popular products to find the ideal solution

[samtec.com/picturesearch](https://samtec.com/picturesearch)

**Downloadable Resources:** Immediate and unlimited access to select the right solution - 3D models, prints and footprints, test reports, white papers and more

[samtec.com](https://samtec.com)

# INTERCONNECT SOLUTIONS

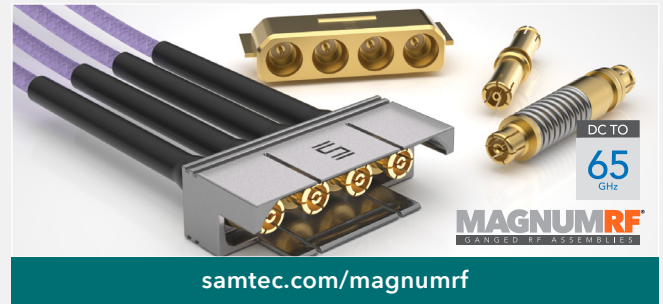
## RF Compression Mount Connectors

1.00, 1.35, 1.85, 2.40 and 2.92 mm vertical and edge launch solderless compression Precision RF interconnects to 110 GHz, with alignment features for peak connector performance.



## Ganged, Multi-Port RF Solutions

Ganged, multi-port SMPM blocks and cable assemblies in a miniature, high-density design with mode free operation up to 65 GHz for millimeter wave applications.



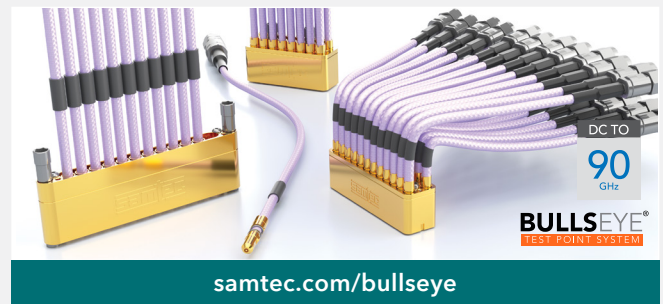
## High-Performance Microwave Cable

Phase and amplitude stable RF cable, in **Samtec orange**, offers improved stability with flexure; features a Dynamic Performance Layer for accurate/dependable performance.



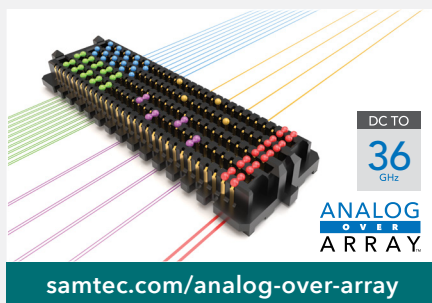
## High-Performance Test Systems

Compression interface, small footprint and high cycle count cable systems ideal for high-performance test applications to 90 GHz and 224 Gbps PAM4 SerDes characterization.



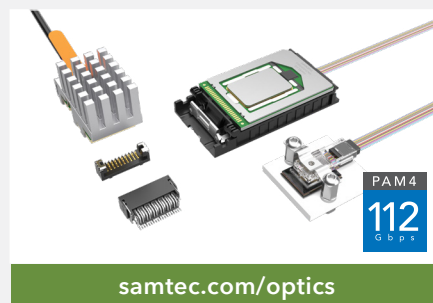
## Analog Over Array™

High-density, high-frequency open-pin-field solutions supporting digital and analog signaling.



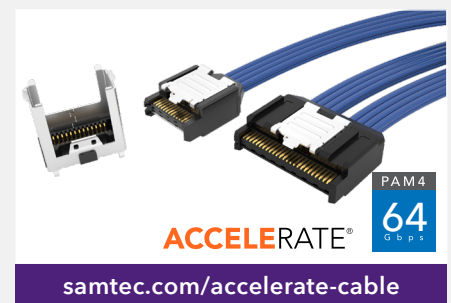
## Mid-Board Optical Transceivers

Future-proof and rad-hard solutions with a small form factor for reliable signal integrity at extended distances.



## Slim Body Cable System

Industry's slimmest cable assembly - 7.6 mm width - with ultra low skew twinax cable for 64 Gbps PAM4 performance.



Visit [samtec.com](http://samtec.com) to view our full line of interconnect solutions.

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