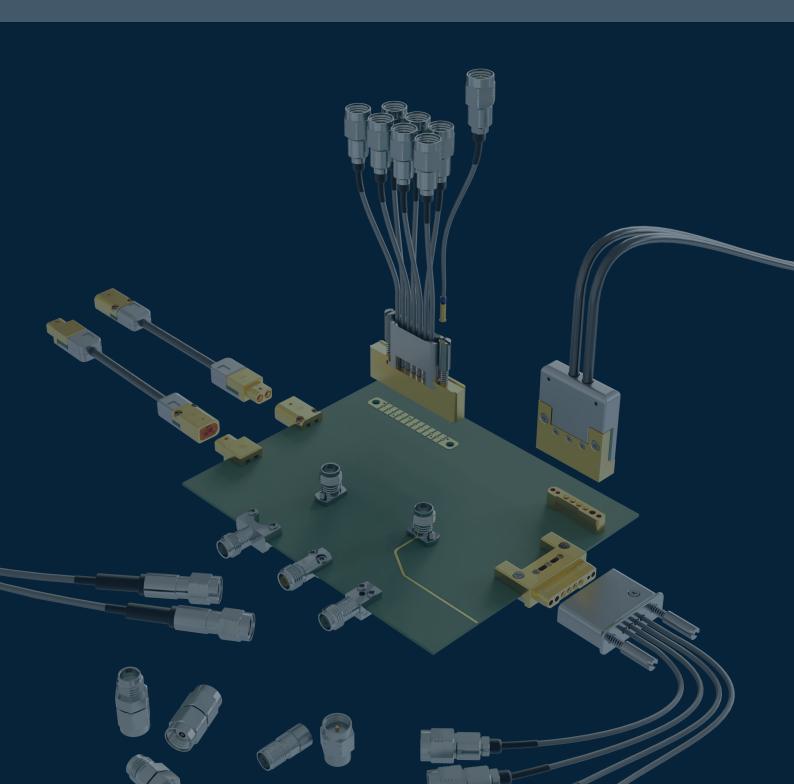


# **INTERCONNECT PORTFOLIO**

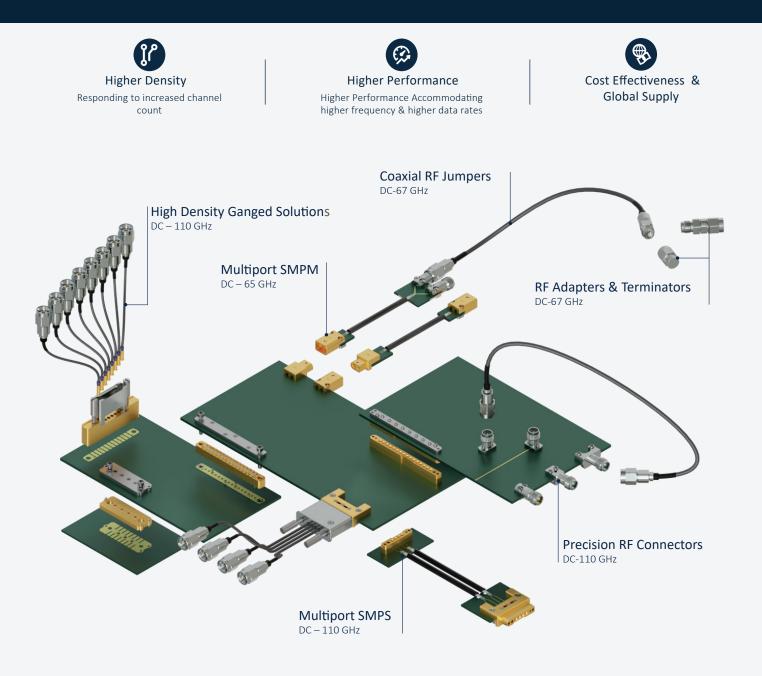
DEPLOY YOUR INSTRUMENTS WITH OUR INNOVATIVE INTERCONNECTS



# **ABOUT US**

Since 2006, MultiLane has been offering high speed test and measurement equipment for data communications. As the industry has evolved from 10 Gigabit Ethernet to 800G Ethernet, we have kept pace with complete cycle support of data center test solutions encompassing IC and transceiver characterization, host line card testing, and link testing. We provide a range of form factors and architectures, from portable instruments, to stand-alone bench top instruments to automated test platforms. We also assist our customer base with compliance and interoperability test services. We serve developers, module vendors, network installers, and data center operators with high-performance, reliable equipment at an attractive price-point. MultiLane provides leading-edge solutions for the latest data center technologies and well-established techologies, from 800G at 112Gbps/lane to industry-first 1.6T thermal testing solutions, with a comprehensive set of development solutions for MSAs ranging from SFP, DSFP, QSFP, QSFP-DD, QSFP-DD800, and OSFP800.

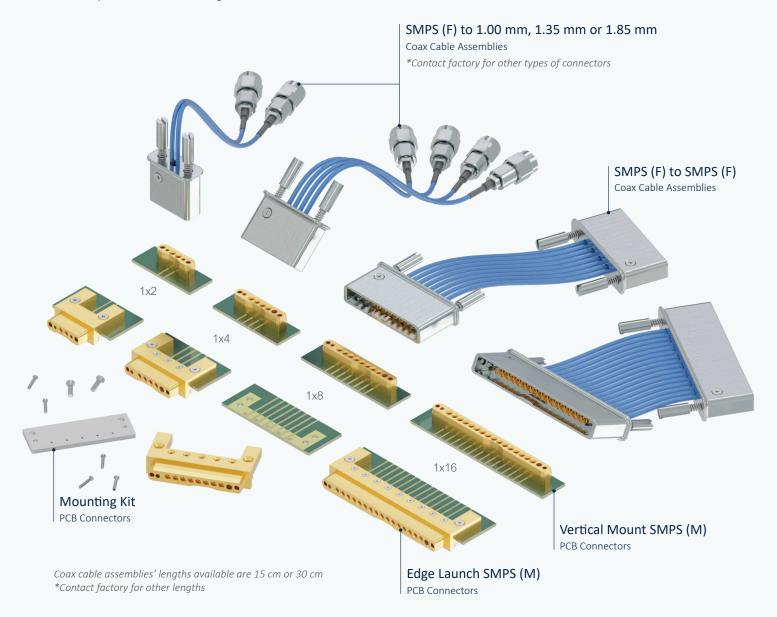
The MultiLane portfolio encompasses optical and electrical oscilloscopes, bit error rate testers, time domain reflectometers (TDR) for TIA and cable testing, interconnect products, as well as fully automated DAC and transceiver test solutions, and compliance test services for 100G and 800G technologies. Developers, manufacturers, and installers of these new technologies all need the wide portfolio of solutions to be able to do their jobs successfully.



# SMPS Interconnects | DC - 110 GHz

# Subminiature Push On Sub-micro

#### A Comprehensive Offering:



#### Features:

- Solderless design
- High density 2.54 mm pitch
- High performance DC-110 GHz
- Blind-mateable mating interface
- Coplanar waveguide & stripline compatible
- Solderless design

### **Benefits:**

- Compact footprint
- Easy field installation & replacement for lower cost, fast cycle time and high repeatability
- Fully customizable
- Cost effective

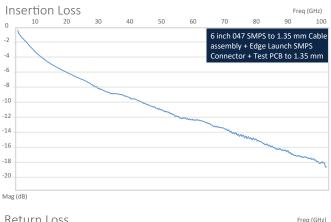
# Multiport SMPS Interconnects 224G Ready

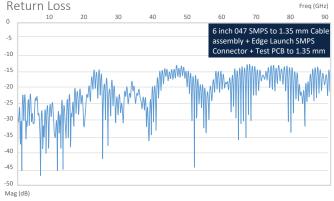
The rise in mmWave, 5G, and 224Gbps/lane PAM4 powering the AI revolution calls for a new type of interconnect to ensure consistent and accurate connections. MultiLane SMPS interconnects are a key component of MultiLane tailored to accelerate the development of 224G system architecture. SMPS connector applications include, but are not limited to semiconductor development, ATE testing, and data center testing.

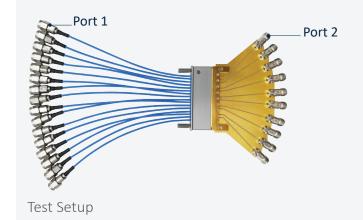


High Performance	High Density	Solderless	Cost Effective
DC - 110GHz	Interconnects	Installation	Solutions

MultiLane can de-embed any SMPS part as needed. A 2xThru trace to de-embed the board alongside an S2p file for the SMPS Female Cable assembly are available upon request. Reach out to *sales@multilaneinc.com* 







Test Setup for 6 inch 047 SMPS to 1.35mm Cable Assembly + Edge Launch SMPS Connector + Test PCB to 1.35mm			
Nominal Impedance	50 ohms		
Frequency Range	up to 110 GHz		
Insertion Loss	-4dB at 90Ghz (De-Embedded)		
Return Loss	> 10 dB from 60 GHz to 90 GHz		
Shield Effectiveness	> 80 dB		

## **SMPS Twinax Cable Assemblies** Greater system stability and performance in a tighter package



High Data Rates 112Gb/s | 224Gb/s System Stability & Reliability Superior Thermal Performance Design Space Efficiency Cost Effective Solutions

Twinax cables transmit a single signal in differential pairs with very low skew, ensuring extra protection from environmental factors.

The MultiLane line of twinax SMPS cable assemblies answers three of the most prominent industry trends: cost effectiveness, high density design, and high data rate requirements.

MultiLane SMPS twinax cable assemblies are fully capable of 112Gb/s & 224Gb/s data rates.



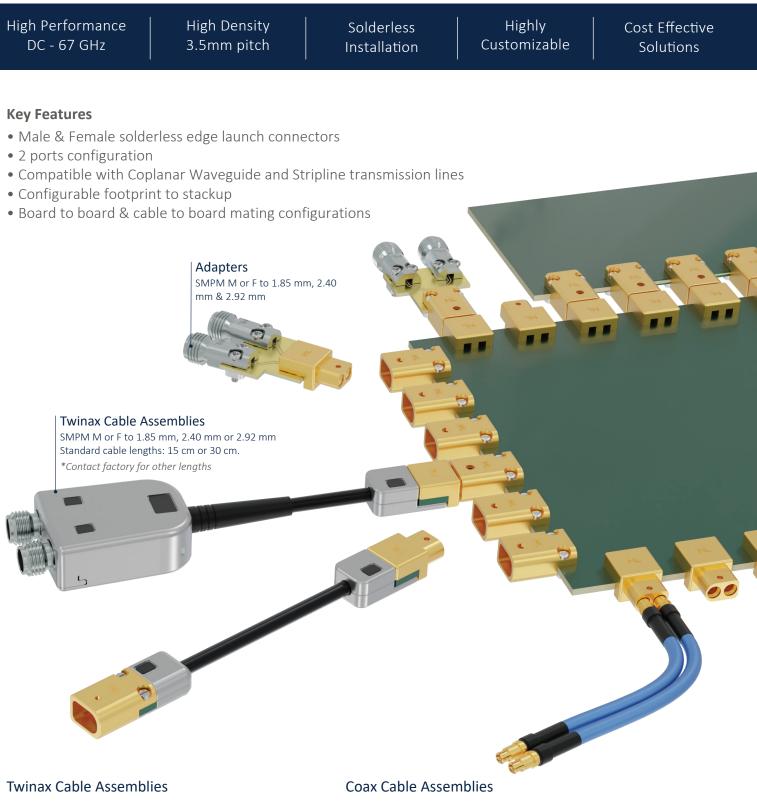
MultiLane leverages top-tier industry expertise and technology in twinax cable processing and termination technology to deliver plug and play ready twinax assemblies.

For more information reach out to: *sales@multilaneinc.com* 



# **SMPM Interconnects | DC - 67 GHz** Subminiature Push On Mini

MultiLane SMPM product line was developed for applications with strict design density limitations and where high performance is crucial. SMPM connector applications include, but are not limited to semiconductor development, ATE testing, and data center testing.



- SMPM M to SMPM M
- SMPM M to SMPM F
- SMPM F to SMPM F
- Standard cable lengths: 15 cm or 30 cm
- SMPM F to SMPM F
- SMPM F to 1.85 mm, 2.40 mm or 2.92 mm
- Standard cable lengths: 15 cm or 30 cm

\*Contact factory for other lengths

\*Contact factory for other lengths

# **Industry's Most Requested** An interconnect for every instrument

## Solderless Board Mount Precision RF Connectors | DC-110GHz

- Vertical Launch: Coplanar Waveguide and Stripline transmission lines compatible
- Edge Launch: EMI, Wide Body, Narrow Body both Coplanar Waveguide and Stripline transmission lines compatible
- 1.00 mm, 1.35 mm, 1.85 mm, 2.40 mm, 2.92 mm
- Configurable footprint to stack up
- Test boards available
- Customization offered





- Ø.047 Coax Cables with 1.00mm, 1.35 mm, 1.85 mm, 2.40 mm & 2.92 mm precision connector interfaces
- Ø.086 Coax Cables with 1.85 mm, 2.40 mm & 2.92 mm precision connector interfaces
- Phase stable assemblies sold individually and in pairs matched to 2 picoseconds
- 12 in, 24 in, 32 in, 39 in & custom length available
- 50-ohm cable assemblies
- Customization offered



## Adapters | DC-67GHz

- 1.85mm, 2.40 mm & 2.92 mm
- Between Series & Within Series
- Straight configuration
- 50 ohms coaxial adapters
- Rated to 500 mating cycles typical

## Terminators | DC-67GHz

- 1.85mm, 2.40 mm & 2.92 mm
- Male & Female straight configuration
- 50 ohms coaxial terminators
- Rated to 500 mating cycles typical







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For sales support sales@multilaneinc.com

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