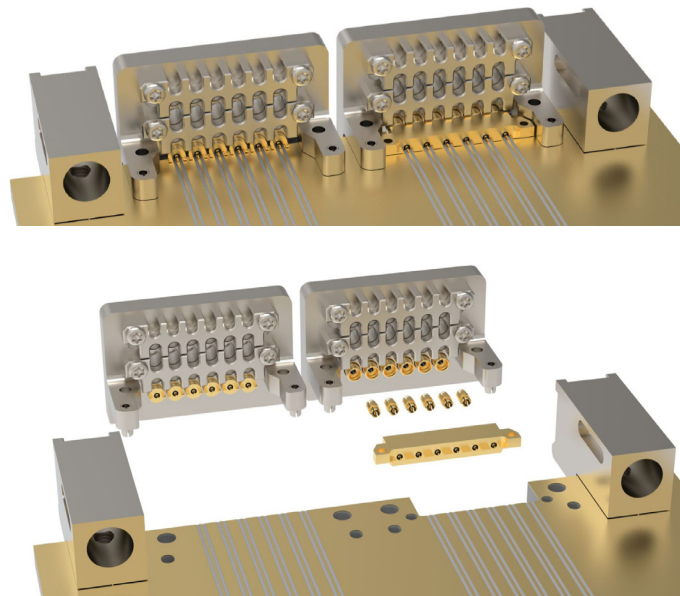**TE connectivity**

INTRODUCING

NANORF EDGE LAUNCH CONNECTOR

- **HIGH FREQUENCY CONTACTS SUPPORT HIGH PERFORMANCE UP TO 70 GHZ**

TE Connectivity (TE) has introduced the NanoRF Edge Launch connector. This product offers higher density and ruggedness over SMPM and SMPS edge launch options, and integrates the RF above an optical interconnect (with TE's hybrid RF/optical modules).

This product offers higher density and ruggedness over SMPM and SMPS edge launch options, and the technology can be leveraged to support SOSA aligned NanoRF connector modules.

TARGET MARKETS

- Military
- Radar

KEY BENEFITS

- NanoRF contact plug in module is terminated to the pc board, eliminating the need for cables
- Bullet adapter takes up tolerance between edge launch termination and mating face and decreases the mating force required for stacked boards
- Contact and module design is configurable for different sizes and contact counts

INDUSTRIES SERVED

- Supports VITA 67.3 interface for VPX industry standard implementations with SOSA compliance to support plug-in computing modules

LEARN MORE

NanoRF Edge Launch Connector Landing Page

NanoRF Edge Launch Parts List

NanoRF Edge Launch Connector Brochure

ELECTRICAL

- Frequency range of 2 MHz to 40 GHz and 1.5:1 over the frequency range of 40 GHz to 85 GHz.
- VSWR of 1.4:1 over the frequency range of 2 MHz to 40 GHz and 1.5:1 over the frequency range of 40 GHz to 67 GHz.
- Crosstalk: Frequency Range 3 GHz to 27 GHz and can achieve 100 db of crosstalk
- Insertion Loss: Not be greater than $0.12 * \sqrt{f}$ dB, where f is in GHz. Maximum insertion loss at 20 GHz = 0.5367 dB.
- Meets VITA 72 Shock and Vibration
- Meets VITA 67 Environmental Requirement

STANDARDS & SPECIFICATIONS

- EIA-364: Electrical Connector/Socket Test Procedures including Environmental Classifications
- ANSI/VITA 67.3: Coaxial Interconnect on VPX, Spring-Loaded Contact on Backplane
- ANSI/VITA 48.1: Mechanical Specification for Microcomputers Using REDI Air Cooling
- ANSI/VITA 46.0: VPX Baseline Standard
- ANSI/VITA 65.0-2019: OpenVPX System Standard
- ANSI/VITA 65.1-2019: OpenVPX System Standard – Profile Tables
- MIL-STD-810H: Environmental Engineering Considerations and Laboratory Tests,