

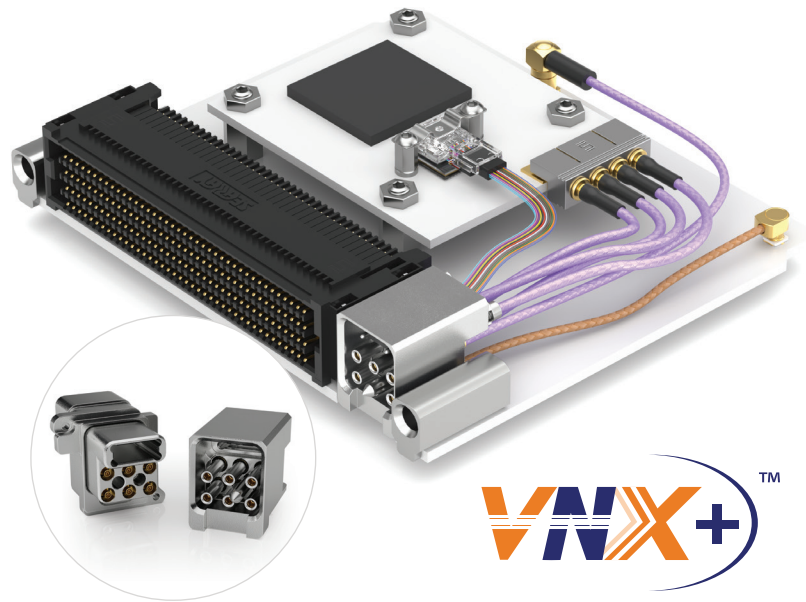


VITA™ 90.2 VNX+™ OPTICAL & RF APERTURES

Samtec has expanded the VITA™ 90 VNX+™ Family of Standards to produce high-density, high-performance optical and RF interconnect systems ideal for rugged small-form factor (SFF) applications.

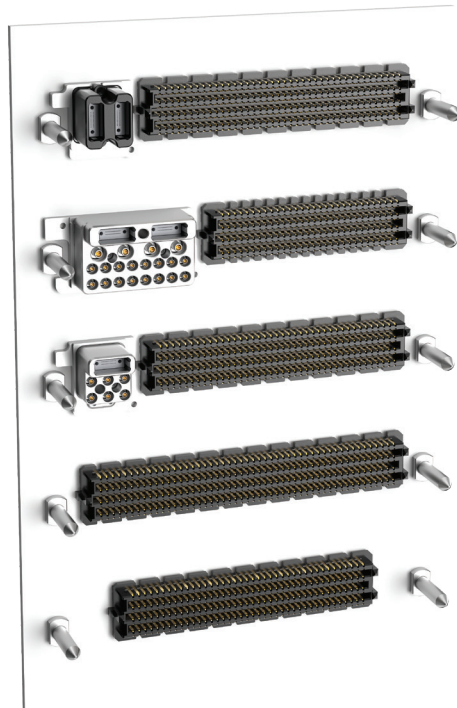
FEATURES & BENEFITS

- Designed and optimized for the needs of the Mil/Aero SFF community
- Plug-In Module to Backplane Interface engineered as a full system solution to ensure reliability
- Robust 3-stage alignment
- Shrouded housing provides maximum contact protection from FOD and accidental damage
- Supports 5" common launch tube deployment



MULTIPLE APERTURE PROFILES SUPPORTED

- 240 pin Connector + 16x Size 20 RF + 4x Size 16 RF + 2 MT
- 320 pin Connector + 6x Size 20 RF + 1 MT
- 320 pin Connector + 2 MT
- 320 Pin Connector + 6x 75 Ω , Size 16 + 1 MT
- 320 Pin Connector + 8x 75 Ω , Size 16



VITA/VNX/VNX+ are all respective trademarks of VITA

Visit samtec.com/vnx-plus or e-mail VNX@samtec.com

© JANUARY 2025, SAMTEC, INC.

CONNECTOR MODULES

- Blind mate
- Floating backplane connector module
- Full & half-sizes
- Precision machined aluminum
- Multiple-stage chamfered edges assure optimal self-alignment
- Reliable mating with repeatable performance metrics
- Shrouded and siloed contacts protected from FOD and accidental damage
- Rugged design for extreme Mil/Aero environments



RF INTERCONNECTS

- Size 16 RF Contact (50 Ω /75 Ω)
- Size 20 RF Contact (50 Ω)
- 0.047" and 0.086" coax cable
- Frequency range up to 90 GHz
- -90 dB isolation to 67 GHz
- Highly configurable to support application needs

OPTICAL INTERCONNECTS

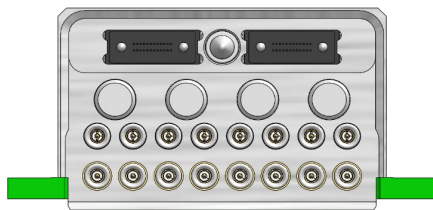
- Industry-standard MT ferrule
- Supports Samtec FireFly™, FireHawk™ and Halo® optical transceiver options
- Highly configurable to support application needs

ENVIRONMENTAL QUALIFICATION

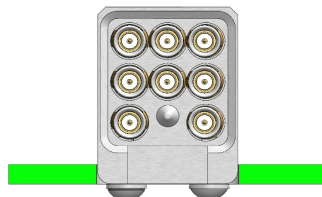
- VITA™ 42/47, DO-160 and MIL-STD-810

CONNECTOR MODULE CONNECTORS

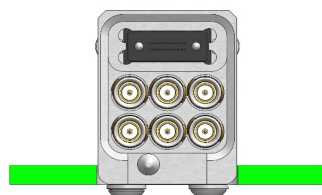
2x MT
4x Size 16
16x Size 20



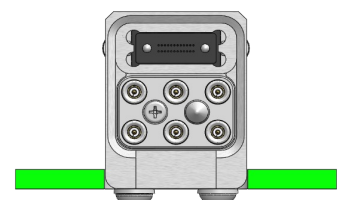
8x Size 16



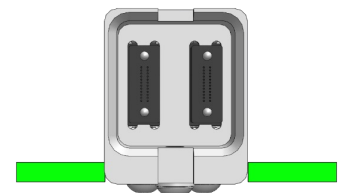
6x Size 16
1x MT



6x Size 20
1x MT



2x MT



10x Size 20

