FEATURES

The foundational coaxial interconnect for RF on VPX platforms

- Standardized microwave interconnect for convenience
- Cable assembly daughtercard modules that mate to backplane adapters
- Floating SMPM coaxial contacts ensure excellent RF performance in any mating condition

VITA 67.1 (3U) and VITA 67.2 (6U)

APPLICATIONS

- High-reliability, high-density for aerospace & defense applications
- SIGINT, EWR, ground base station & communication systems, avionics, radar systems
- Air Transport Racks (ATRs) without Rear Transition Modules (RTMs) or limited speed through RTM
- Available in 3U (4 position) and 6U (8 position) formats
- Designed for side-by-side implementation with VITA 46 hardware

BENEFITS

- Robust and rugged high speed cabled solution
- MIL-STD 810 for shock and vibration
- Minimal footprint of I/O slot
- Rear panel interface enables quick disconnect & replacement of card, leading to a significant reduction in Mean-Time-To-Repair (MTTR) when compared to front panel interfaces
- Utilizes existing and proven SMPM interfaces
- Unique SV connector retention mechanism offers significant ease of assembly/disassembly into daughtercard module over competitor designs

SMPM Male to Male Adapter
SMPM male on backside of board

SMPM Female Cable Connector
Configurable to any Ø.086" or smaller cable type

Motherboard Module

Daughtercard Module

VITA 67

High Density & High Performance RF Addition to the OpenVPX Platform
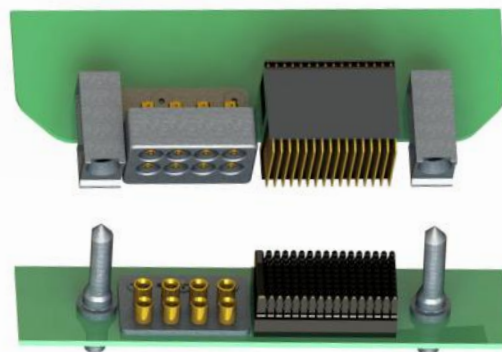
BASED ON INDUSTRY STANDARD SMPM INTERFACES

- Proven performance in Military and Commercial Applications
- Ideal for High Frequency and High Density Applications
- Lightweight and versatile, can be cabled to most Ø.086" and smaller diameter coaxial cable types

SMPM ELECTRICAL/MECHANICAL INTERFACE SPECIFICATIONS

Return Loss	-14dB max
Insertion Loss	$0.12*\sqrt{F(GHz)}$ min, DC to 26.5 GHz
Isolation	> 100 dB, DC to 26.5 GHz
Axial Travel	.079" min
Radial Float	± .010" min
Engage Force	2.5 lbs (typical per contact)

Note: Figures are per mated pair.

Example: VITA 67.2 (6U) Connector with Digital Connector and Guide Pins

STANDARD PART NUMBERS LISTED ON VITA 67 SPEC

VITA 67.1 4 Position, Motherboard Multiposition SMPM Module **SV Part: SF1132-6037**	**VITA 67.2** 8 Position, Motherboard Multiposition SMPM Module **SV Part: SF1132-6036**
VITA 67.1 SMPM Plug-in Card 4 Position Coaxial Module **SV Part: SF9321-60015**	**VITA 67.2** SMPM Plug-in Card 8 Position Coaxial Module **SV Part: SF9321-60013**
SMPM Contact Ø.086" and Ø.047" Cable **SV Part: 3221-40022 (.086)** **SV Part: 3221-40019 (.047)**	SMPM Removal Tool **SV Part: 500-32-022**