



VITA 67

High Density & High Performance RF
Addition to the **OpenVPX** Platform

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



Motherboard Module

SMPM Male to Male Adapter
SMPM male on backside of board

SMPM Female Cable Connector
Configurable to any $\varnothing.086''$ or smaller cable type



Daughtercard Module



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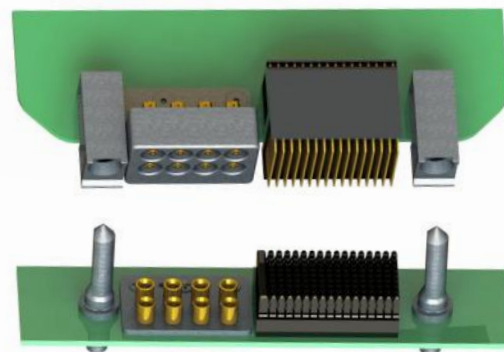
BASED ON INDUSTRY STANDARD SMPM INTERFACES

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

SMPM ELECTRICAL/MECHANICAL INTERFACE SPECIFICATIONS

Return Loss	-14dB max
Insertion Loss	$0.12 * \sqrt{F(\text{GHz})}$ min, DC to 26.5 GHz
Isolation	> 100 dB, DC to 26.5 GHz
Axial Travel	.079" min
Radial Float	$\pm .010''$ 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 $\varnothing.086''$ and $\varnothing.047''$ Cable SV Part: 3221-40022 (.086) SV Part: 3221-40019 (.047) 	SMPM Removal Tool SV Part: 500-32-022 



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