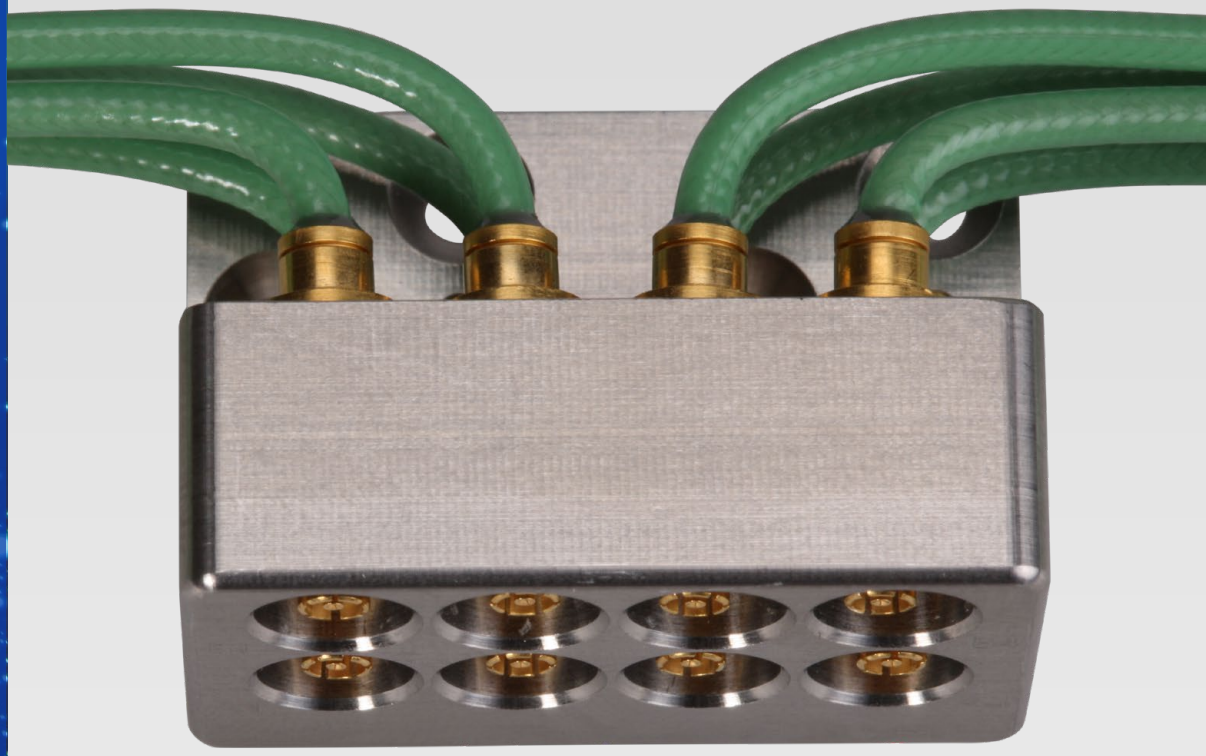
SOSA™ aligned solutions

Edition 2024



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Description of offerings

SOSA™
Sensor Open Systems Architecture

What is SOSA™?

The Sensors Open Systems Architecture (SOSA™) Technical Standard identifies common framework for the design, integration, and deployment of hardware, software, and firmware for next generation military electronics systems. At the hardware connectivity level, SOSA references OpenVPX compliant architecture inside the box and I/O interconnects at the panel.

SOSA takes a subset of the VITA interconnect and hardware architecture standards to define standard use cases for sensor systems. This platform commonality will drive next generation defense systems enabling the ability for rapid technology refresh ensuring continuous mission readiness. HUBER+SUHNER is a proud member of The Open Group's SOSA Consortium and VITA Standards Organization, and has supported the Aerospace and Defense industry with high performance and high reliability connectivity solutions for over half a century.

Features:

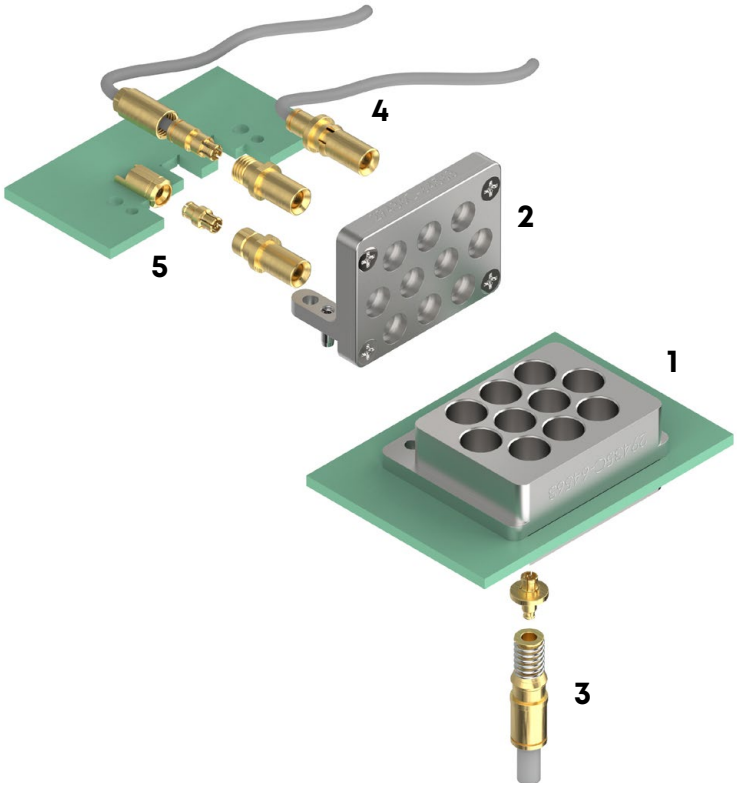
- Complete end-to-end SOSA-compliant RF and Fiber Optic connectivity delivered as drop-in assemblies
- Hybrid RF/Fiber connectivity hardware from a single source
- Innovative SWaP-C aligned design and manufacturing technology builds state-of-the-art performance around open source interfaces
- The industry's largest offering of cable options ensures optimal application-specific performance needsare met for SOSA-compliant connections

Clear Customer Benefits:

- HUBER+SUHNER's proprietary solderless MINIBEND® RF cable termination technology enables the industry's tightest cable bend radius immediately behind the connector and eliminates failure-prone solder joints from the cable assembly, saving valuable hardware packaging space while improving reliability.
- In-house designed and manufactured SOSA-compliant connectors and hardware enables quick-turn order fulfillment of connectivity products compatible with all competitor SOSA-compliant products.
- Multiple cable offerings for each connector type allows HUBER+SUHNER to tailor connectivity solutions for all budgets and application environments.
- HUBER+SUHNER's wide portfolio of in-house designed and manufactured RF connector options provides ultimate flexibility in tailoring cable assembly solutions towards the needs of our customers.
- The SOSA-compliant portfolio of connectors and assemblies from HUBER+SUHNER is comprised of decades of industry-qualified design and assembly methodology.

SOSA™ compliant product offerings

VITA 67.3– SMPM



[1] SMPM Backplane Modules		
VITA 65 Reference	**H+S P/N**	**Description**
6.4.5.6.3	29435C-64563	10-pos SMPM
6.4.5.6.4	29435C-64564	14-pos SMPM
6.4.5.6.7	29435C-64567	14-pos SMPM, 3-pos MT

[2] SMPM PIC Modules		
VITA 65 Reference	**H+S P/N**	**Description**
6.4.5.6.3	29436C-64563	10-pos SMPM
6.4.5.6.4	29436C-64564	14-pos SMPM
6.4.5.6.7	29436C-64567	14-pos SMPM, 3-pos MT

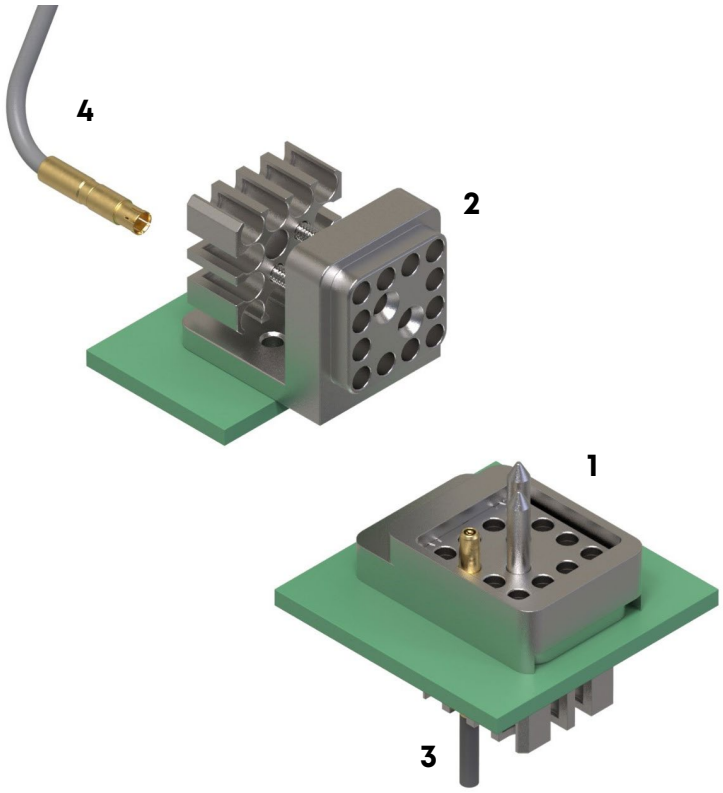
* - Contact H+S for full part number and ordering information
** - Additional cable offerings may be available, contact H+S for current compatibility list

[3] Backplane - SMPM Cable Assemblies		
Description	**H+S P/N Series***	**Compatible H+S Cables****
VITA 67.3 SMPM Backplane	29981SV2CR3	32061SE, 32041E, 32085E, 32081E, 32024E

[4] PIC – SMPM Cable Assemblies		
Description	**H+S P/N Series***	**Compatible H+S Cables****
VITA 67.3 SMPM PIC	29972SVCR3	32061SE, 32041E, 32024E

[5] PIC – SMPM Components	
Description	**H+S P/N**
VITA 67.3 SMPM to SMPM Male Adaptor	29989-972P-972P
VITA 67.3 SMPM to SMPM-T Male Adaptor	29989-972P-976P
SMPM Female-to-Female Bullet (.210")	29981-A2F11
SMPM Male Edge Launch PCB Connector	29972CB1-4-004

VITA 67.3 – NanoRF™



[1] NanoRF™ Backplane Modules*		
VITA 65 Reference	**H+S P/N**	**Description****
6.4.5.7.2	29446P-9	9-pos NanoRF
6.4.5.7.3	29446P-5-1	5-pos NanoRF, 1-pos MT
6.4.5.7.4	29446P-10-1	10-pos NanoRF, 1-pos MT

[2] NanoRF™ PIC Modules*		
VITA 65 Reference	**H+S P/N**	**Description**
6.4.5.7.2	29446J-9	9-pos NanoRF
6.4.5.7.3	29446J-5-1	5-pos NanoRF, 1-pos MT
6.4.5.7.4	29446J-10-1	10-pos NanoRF, 1-pos MT

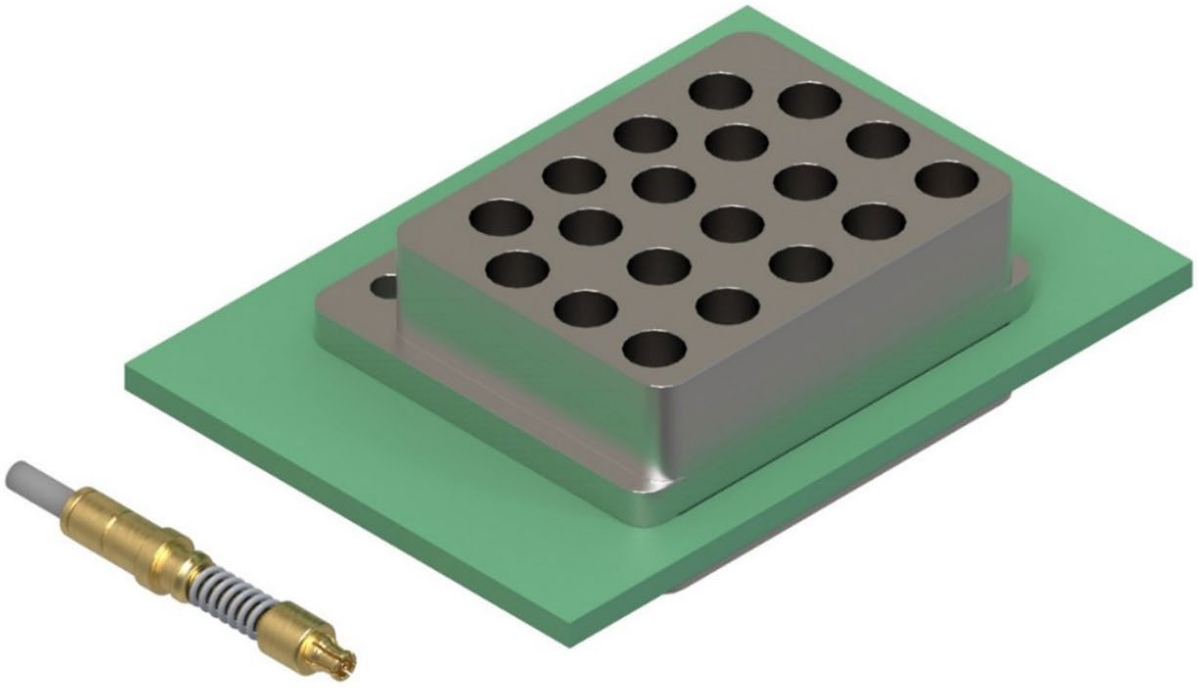
[3] Backplane - NanoRF™ Cable Assemblies*		
Description	**H+S P/N Series***	**Compatible H+S Cables****
VITA 67.3 NanoRF Backplane	29447P	32061SE

[4] PIC– NanoRF™ Cable Assemblies*		
Description	**H+S P/N Series***	**Compatible H+S Cables****
VITA 67.3 NanoRF PIC	29447J	32061SE

* NanoRF is a registered trademark of TE Connectivity. HUBER+SUHNER is a licensed manufacturer and distributor of NanoRF components and cable assemblies. All NanoRF components produced by HUBER+SUHNER are guaranteed to be intermateable with all NanoRF products.

** Backplane modules can be provided as Style C (full-width) or Style D (half-width) connectors.
Contact H+S for part details and ordering information.

VITA 67.3 – SMPS



VITA 67.3 SMPS	Description	Item number
Backplane Cable Connector		
0.032” (29171SVCR3-32-61SE)	NANOBEND	Multiple Configurations Available
0.047” (29171SVCR3-32-41)	MICROBEND	Multiple Configurations Available
0.047” (29171SVCR3-32 -85)	MICROBEND L	Multiple Configurations Available

NOTE: Fully assembled/populated VITA 67 SMPS backplane modules are available from HUBER+SUHNER. Please contact us for additional information.

SOSA J8 RF High Density	Description	Item number
Size 12 SMPM Pin		
0.032” (29981M12-32-61SE)	NANOBEND	Multiple Configurations Available
0.047” (29981M12-32-41)	MICROBEND	Multiple Configurations Available
0.086” (29981M12-32-81)	MINIBEND	Multiple Configurations Available
Size 12 SMPM Socket		
0.032” (29972AS12-32-61SE)	NANOBEND	Multiple Configurations Available
0.086” (29972AS12-32-24)	MINIBEND L	Multiple Configurations Available
SOSA J9 Low Loss RF		
Size 8 BMB Pin	Gold Plated Pin	Contact H+S Representative
Size 8 BMB Socket	Gold Plated Socket	Contact H+S Representative

VITA 67.1 and 67.2 Data

For further information on VITA 67.1 and 67.2 offerings, please refer to H+S DOC-0000889067.

Cable offering data

Cable type(s)**	Outer diameter (mm)	Bend radius static (mm)	Features/Benefits	Vita 67 Connector interface
NANOBEND (32061SE) ^	1.62	5.08	Smallest MINIBEND-style diameter	Vita 67.1, 67.2, 67.3
MICROBEND (32041E) ^	1.96	1.52	Smallest MINIBEND-style bend	Vita 67.1, 67.2, 67.3
MICROBEND L (32085E) ^	1.96	1.52	Low-Loss version of MICROBEND	Vita 67.1, 67.2, 67.3
MINIBEND (32081E) ^	2.49	5.08	Original MINIBEND bend-to-the-end	Vita 67.1, 67.2, 67.3
MINIBEND L (32024E) ^	2.49	5.08	Low-Loss version of MINIBEND	Vita 67.1, 67.2, 67.3

^ For further details of the cables listed above, please see specific datasheet, catalog, or contact your H+S Representative. Other cables in the HUBER+SUHNER Catalog are available upon request.

* Contact H+S for full part number and ordering information
** Additional cable offerings may be available, contact H+S for current compatibility list

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HUBER+SUHNER is certified according to ISO 9001, ISO 14001, OHSAS 18001, EN(AS) 9100, IATF 16949 and ISO/TS 22163– IRIS.

Waiver
Fact and figures herein are for information only and do not represent any warranty of any kind.