X Amphenol SOCAPEX



R-VPX Evolution

Ruggedized VITA 46 interconnect system **High-Speed Evolution**



Description

Evolution is specifically designed to support the latest high-speed protocols while still meeting open VPX requirements. Evolution meets the performance requirements of VITA 46 & 47 while still intermateable with existing VITA 46 backplane connectors.

This connector systems is optimized for speed and for ruggedness to handle harsh environment requirements in many applications across the board.

Benefits

- Modular COTS lightweight connector system
- Ruggedized 4 points contact system
- Low mating force connector system
- Contact current rating 1.5 Amps
- Can be combined with high power modules, optical modules (VITA 66) and RF Modules (VITA 67)

Features

- 16 Gb/s+ performance
- 4 points contact system
- Module connector has modified footprint utilizes smaller compliant contacts for increased Si performance
- Backplane connector is the legacy connector no changes necessary on the backplane
- Intermateable with existing/legacy VITA 46 connectors
- Footprint compliant with 46.30 Spec

Supported high-speed protocols

- PCIe Gen 4 and Gen 5
- 1000BASE-KX, 10GBASE-KX4 and 100GBASE-KR4
- Infiniband SDR, DDR, and QDR
- Serial RapidIO 12.5 Gbaud and 25 Gbaud

Online configurator & 3D model download

You can define references according your needs and download directly 3D models in several formats on R-VPX product page in our website www.amphenol-socapex.com or scan QR code:





Markets













R-VPX

Daughter card configuration: How to order

1 2 3

	2.	3.	4.	3.	0.
Connector Type	Gender	Size	Insert Type	Plating	Contact Finish
RVPX-	PE	16	D	M	1

1. Connector Type

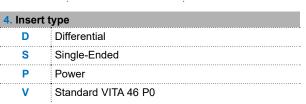
RVPX- Rugged High Speed Board

2. Gend	ler
Р	Module 10 Gb/s
PF	Evolution Module 16 Gh/s

3. Size	
08	8 Position Insert
16	16 Position Insert

Daughter	· Card			
Module Position		Part No. Amphenol R-VPX Connectors		
P0		RVPX-P08VCX*	RVPX-P08VMX*	
P1, P2,	Differential	RVPX-P16DCX*	RVPX-P16DMX*	
P3, P4, P5, P6	Single-Ended	RVPX-P16SCX*	RVPX-P16SMX*	
Keying Guide Modules		RVPX-HMD-X**	RVPX-HMM-X**	

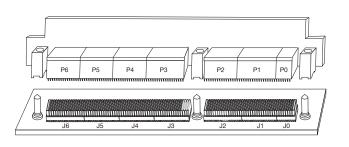
^{*} Refer to Step 6 (Contact Termination Finish) to complete part number.



5. Plating	9
M	50 Micro-Inches Gold
С	30 Micro-Inches Gold

6. Contact Termination Finish	
1	Tin ✓
2	Tin-Lead

[✓] RoHS compliant



Backplane configuration: How to order

1.

2.

3.

4.

5.

6.

Connector Type	Gender	Size	Insert Type	Plating	Contact Finish
RVPX-	J	16	E	M	1

1. Connector Type

RVPX- Rugged High Speed Board

2. Gender

J Backplane

3. Size	
08	8 Position Insert
16	16 Position Insert

Backplane		
Module Position	Part No. Amphenol R-VPX Connectors	
J0	RVPX-J08ECX*	RVPX-J08EMX*
J1, J3, J4, J5	RVPX-J16MCX*	RVPX-J16MMX*
J2, J6	RVPX-J16ECX*	RVPX-J16EMX*
Keying Guide Modules	RVPX-HDP-X**	RVPX-HPM-X**

^{*} Refer to Step 6 (Contact Termination Finish) to complete part number.

^{4.} Insert type

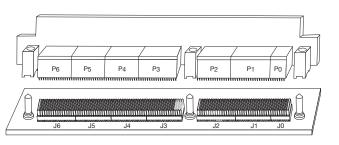
M Middle

E End

5. Plating		
M	50 Micro-Inches	
С	30 Micro-Inches	

6. Contact Termination Finish	
1	Tin ✓
2	Tin-Lead

√ RoHS compliant



Amphenol Socapex
948, promenade de l'Arve BP29
74311 Thyez Cedex - France
Phone: +33 (0)4 50 89 28 00
contact@amphenol-socapex.fr





^{**} Contact us for available keying orientation

^{**} Contact us for available keying orientation