R-VPX Evolution 2.0
Fastest VITA 46.30 connectors in the world

Description

Amphenol's R-VPX Evolution 2.0 is the next generation of high-speed ruggedized backplane connectors. Evolution 2.0 series connectors are designed, optimized and qualified to data rates in excess of 32 Gb/s making these connectors the fastest VITA 46.30 connectors in the world.

They are tested to VITA levels and are backward intermateable with R-VPX, R-VPX EVO 1 and VITA 46 qualified connectors.

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

- 32 Gb/s performance
- 4 points contact system
- Module and backplane connectors utilize smaller compliant contacts for increase Si performance
- Intermateable with existing/legacy VITA 46 connectors
- 46.30 Spec compliant

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 :
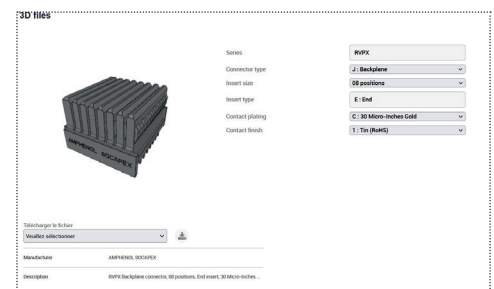
Markets

Commercial Aerospace   Military Aerospace   Electronic Systems / C5ISR   Ground Vehicle   Missiles   Space

www.amphenol-socapex.com
Due to technical progress, all information provided is subject to change without prior notice
Designed by Amphenol Socapex

Amphenol SOCAPEX

R-VPX

Daughter card configuration: How to order

1.	2.	3.	4.	5.	6.
Connector Type	Gender	Size	Insert Type	Plating	Contact Finish
RVPX-	PE2	16	D	M	1

1. Connector Type

RVPX-	Rugged High Speed Board

2. Gender

P	Module 10 Gb/s
PE	Evolution Module 16 Gb/s
PE2	Evolution Module 2 32 Gb/s

3. Size

08	8 Position Insert
16	16 Position Insert

Daughter Card

Module Position		Part No. Amphenol R-VPX Connectors	
P0		RVPX-P08VC**X***	RVPX-P08VM**X***
P1, P2, P3, P4, P5, P6	Differential	RVPX-P16DC**X***	RVPX-P16DM**X***
	Single-Ended	RVPX-P16SC**X***	RVPX-P16SM**X***
Keying Guide Modules		RVPX-HMD-**X****	RVPX-HMM-**X****

* **Refer to Step 6 (Contact Termination Finish) to complete part number.**
** **Contact us for available keying orientation**

4. Insert type

D	Differential
S	Single-Ended
P	Power
V	Standard VITA 46 P0

5. Plating

M	50 Micro-Inches Gold
C	30 Micro-Inches Gold

6. Contact Termination Finish

1	Tin ✓
2	Tin-Lead

✓ RoHS compliant
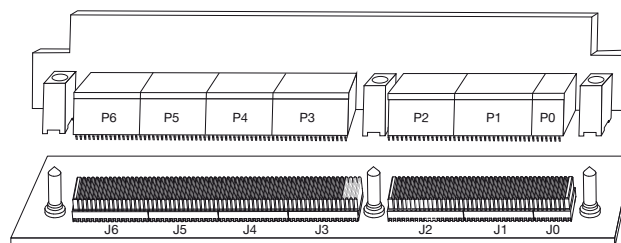
Backplane configuration: How to order

1.	2.	3.	4.	5.	6.
Connector Type	Gender	Size	Insert Type	Plating	Contact Finish
RVPX-	JE2	16	E	M	1

1. Connector Type

RVPX-	Rugged High Speed Board

2. Gender

J	Backplane
JE2	Backplane 32 Gb/s

3. Size

08	8 Position Insert
16	16 Position Insert

Backplane

Module Position	Part No. Amphenol R-VPX Connectors	
J0	RVPX-J08EC**X***	RVPX-J08EM**X***
J1, J3, J4, J5	RVPX-J16MC**X***	RVPX-J16MM**X***
J2, J6	RVPX-J16EC**X***	RVPX-J16EM**X***
Keying Guide Modules	RVPX-HDP-**X****	RVPX-HPM-**X****

* **Refer to Step 6 (Contact Termination Finish) to complete part number.**
** **Contact us for available keying orientation**

4. Insert type

M	Middle
E	End

5. Plating

M	50 Micro-Inches
C	30 Micro-Inches

6. Contact Termination Finish

1	Tin ✓
2	Tin-Lead

✓ RoHS compliant

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