Amphenol SOCAPEX

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 | C5ISR, Battlefield, Ground Vehicles | Missiles | Space

R-VPX

Daughter card configuration: How to order

1. Connector Type	2. Gender	3. Size	4. Insert Type	5. Plating	6. 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

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

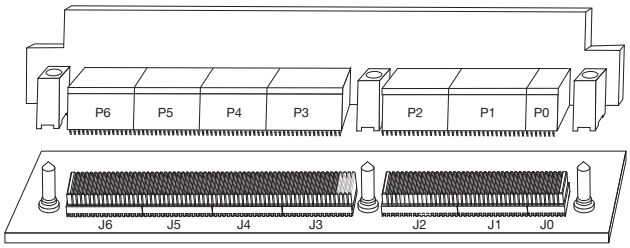
1	Tin ✓
2	Tin-Lead

✓ RoHS compliant

Daughter Card

Module Position		Part No. Amphenol R-VPX Connectors	
P0		RVPX-P08VCX*	RVPX-P08VMX*
P1, P2, P3, P4, P5, P6	Differential	RVPX-P16DCX*	RVPX-P16DMX*
	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.
** Contact us for available keying orientation



Backplane configuration: How to order

1. Connector Type	2. Gender	3. Size	4. Insert Type	5. Plating	6. 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

4. Insert type

M	Middle
E	End

5. Plating

M	50 Micro-Inches
C	30 Micro-Inches

6. Contact Termination Finish

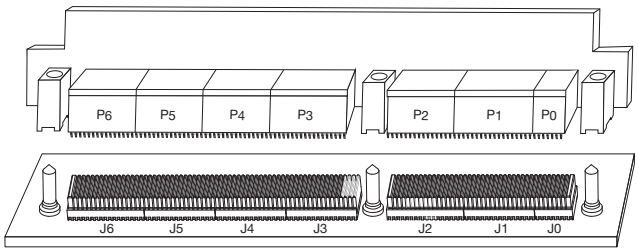
1	Tin ✓
2	Tin-Lead

✓ RoHS compliant

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.
** Contact us for available keying orientation



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