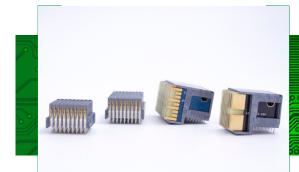
## Amphenol Aerospace





# **R-VPX** Ruggedized VITA 46

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### OVERVIEW

Amphenol's R-VPX is a ruggedized, high-speed, board-to-board interconnect system capable of data rates in excess of 10 Gbps, meeting and exceeding VITA 46 standards. This connector system gives users modularity and flexibility by utilizing PCB wafer construction with customized wafer-loading patterns.

### DAUGHTER CARD CONFIGURATION: HOW TO ORDER

1.		2.	3.	4.		5.	6.
Connecto	or Type	Gender	Size	Insert Ty	ре	Plating	Contact Finish
RVPX	-	Р	16	D		М	1
. Conne	ector Ty	/pe		4. Ins	ert -	Гуре	
RVPX-	Rugge	ed High Sp	eed Board	D	Dif	fferential	
2. Gende	ər			S	Sir	ngle-Ende	d
P	Modul	e		P	Po	ower	
				V	Sta	andard VIT	A 46 P0
B. Size	0. De eli	tion Insert		<b>5.</b> Pl	atin	g	
08				M	50	Micro-Inc	hes Gold
16	16 Pos	sition Insert	[	С	30	Micro-Inc	hes Gold
				6. Co	onta	act Termii	nation Finish
				1	Tir	n ⊘	
				2	Tir	n-Lead	
$\begin{array}{  c  c  c  c  c  c  c  c  c  c  c  c  c$							
			Daughte	er Card			
Module	Positio	on			Par	t No.	

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 AAO for Available Rotations

# APPLICATIONS

- + Commercial and Military Aerospace
- + Electronic Systems/C4ISR
- + Ground Defense
- + Missile Defense
- + Space

### FEATURES & BENEFITS

- + Qualified to VITA 46 for Open VPX applications
- + Fully intermountable & intermateable to existing VITA 46 connectors
- + Meets and exceeds VITA 47 performance requirements
- + Supports Ethernet, Fiber Channel, InfiniBand, and other protocols
- + Modular COTS lightweight connector system
- + Low mating force connector system
- + Pin-Less backplane connector family
- + Supports .8 inch card slot pitches
- + Up to 140 signals per inch
- + Contact current rating1.5 Amps
- + Can be combined with high power modules, RF Modules (VITA 67) and Optical modules (VITA 66)

### MATERIALS

- Contacts: High performance copper alloy, available plated with 50 µin Au over 50 µin Ni in mating area (M) or 30 µin Au (C)
- + Housings: High Temperature thermoplastic
- + Operating Temp: -55 to +105C
- + Guide Hardware: Aluminum or passivated stainless steel

## **R-VPX Ruggedized VITA 46**



PDS-258

#### BACKPLANE CONFIGURATION: HOW TO ORDER

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

### 1. Connector Type

ctor Type	4. Insert Type		
Rugged High Speed Board	М	Middle	
	E	End	

2. Gender

RVPX-

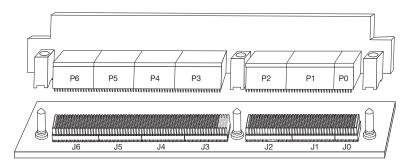
J Backplane
-------------

E	Enu	

3. Size			
	08	8 Position Insert	
	16	16 Position Insert	

5.	Plating

Μ	50 Micro-Inches
С	30 Micro-Inches



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

\* Refer to Step 6 (Contact Termination Finish) to complete part number †Contact AAO for Available Rotations

#### CONTACT US:

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### 6. Contact Termination Finish

1	Tin 🛞
2	Tin-Lead

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