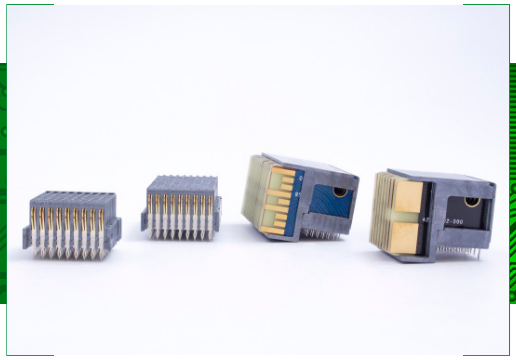
Amphenol Aerospace

PDS-258



R-VPX Ruggedized VITA 46

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.

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

DAUGHTER CARD CONFIGURATION: HOW TO ORDER

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

1. Connector Type

RVPX–	Rugged High Speed Board

2. Gender

P	Module

3. Size

08	8 Position Insert
16	16 Position Insert

4. Insert Type

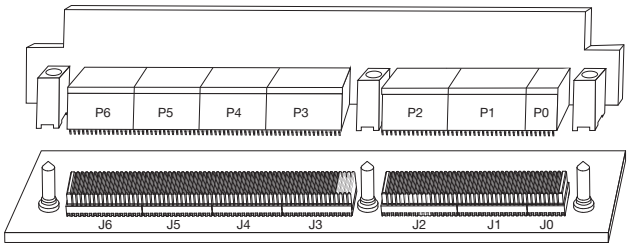
D	Differential
S	Single-Ended
P	Power
V	Standard VITA 46 P0

5. Plating

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

6. Contact Termination Finish

1	Tin
2	Tin-Lead



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

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

4. Insert Type

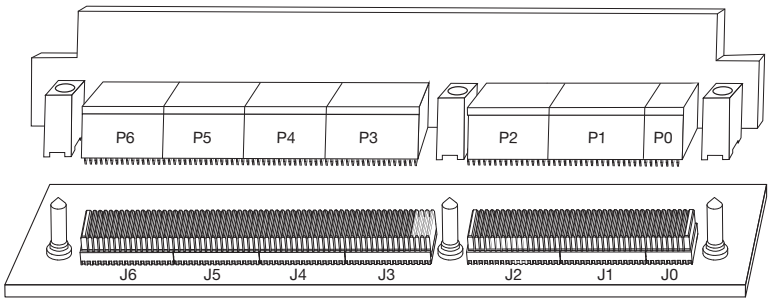
M	Middle
E	End

5. Plating

M	50 Micro-Inches
C	30 Micro-Inches

6. Contact Termination Finish

1	Tin
2	Tin-Lead



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-HPD-X	RVPX-HPM-X

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

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