

VITA 78 SpaceVPX

NEW



Description

Amphenol's VITA 78 connector, also known as SpaceVPX is a component especially designed for use in space-base electronic systems. It is a COTS interconnect system exceeding VITA 78 standards. They are tested for extreme environments, including exposure to radiation, extreme temperatures and vibration while meeting strict NASA/ESA standards.

Main Features

Requirements:

- Meets NASA and ESA outgassing requirements
- Meets the SWaP (Size, Weight and Power) constraints required for space applications
- Meets fault tolerance and redundancy requirements of critical space missions

Benefits:

- Modular nature for facilitating adaptability, enhanced system flexibility and easy maintenance
- Features power wafers and configurable wafer to support VITA space utility management modules

Tests:

- Passed VITA 72 vibration level testing with BER monitoring
- Tested to operate within a temperature range of -67°F (-55°C) to 221°F (105°C)
- Compliant (press-fit) Pin Technology- tested with various PCB platings to verify performance and reliability

Design:

- Based on OpenVPX architecture, supports modular and scalable system integration
- Connector specifically designed with fault tolerance, modularity and system compatibility in mind

Configuration



Daughtercard configuration



Backplane configuration

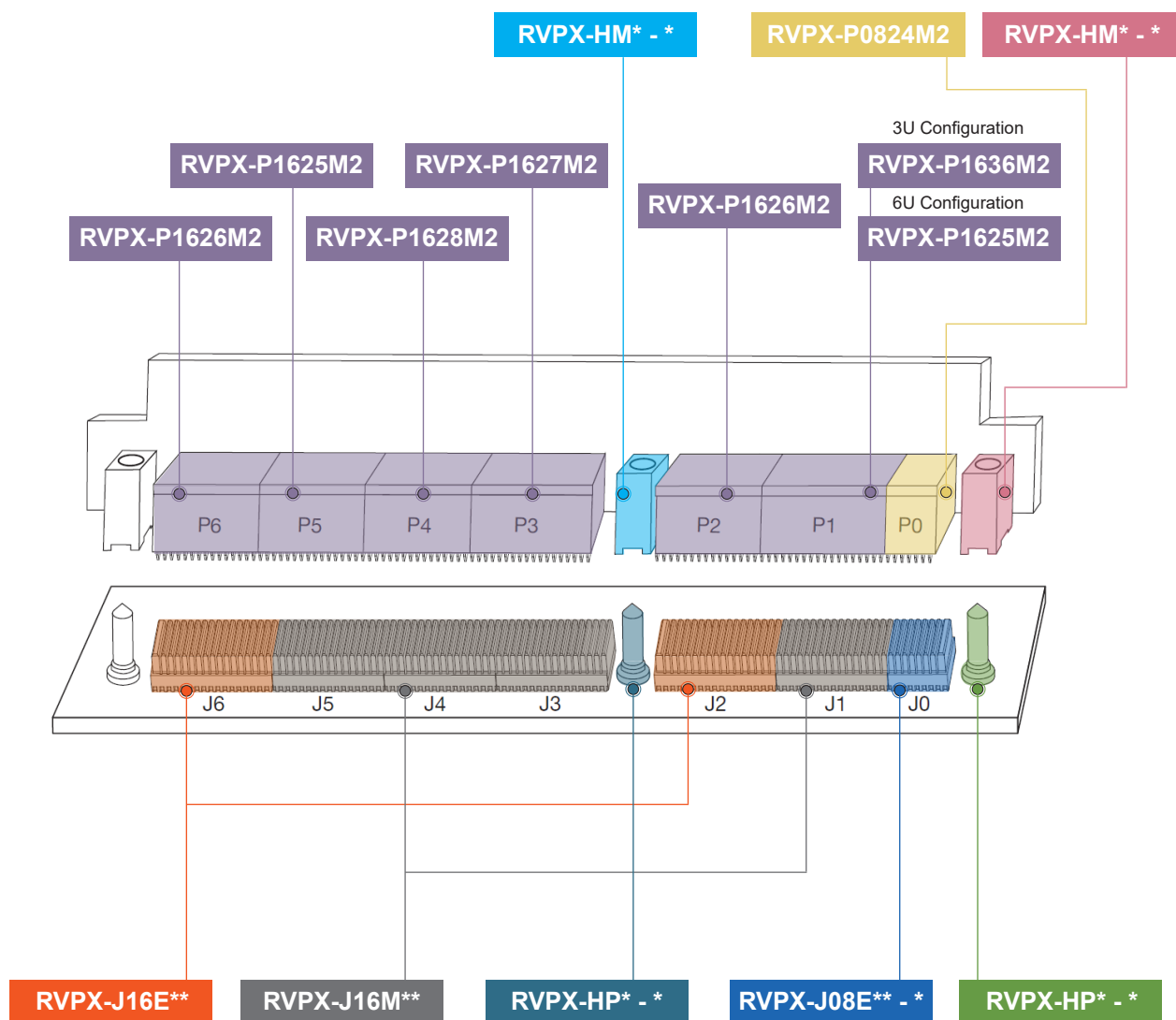
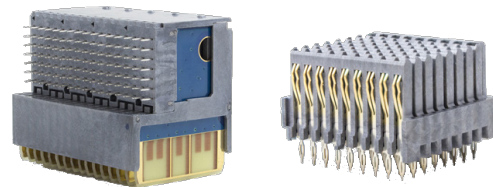
Markets & Applications



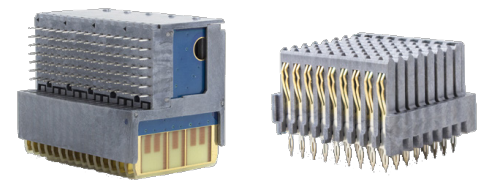
Space

Space VPX (VITA 78)

How to order - Space VPX



SpaceVPX (VITA 78)



How to order - Daughtercard

	Module Position	Part No. Amphenol Space VPX Connectors	Configuration Per VITA 78
3U Configuration	P0	RVPX-P0824M2	Module 8
	P1	RVPX-P1636M2	Module 16E
	P2	RVPX-P1626M2	Module 16B
6U Configuration	P0	RVPX-P0824M2	Module 8
	P1	RVPX-P1625M2	Module 16A
	P2	RVPX-P1626M2	Module 16B
	P3	RVPX-P1627M2	Module 16C
	P4	RVPX-P1628M2	Module 16D
	P5	RVPX-P1625M2	Module 16A
	P6	RVPX-P1626M2	Module 16B

How to order - Backplane

1. Series	2. Connector Type	3. Insert Size	4. Insert Type	5. Contact Plating	6. Contact Termination Finish
RVPX-	J	16	E	M	2

1. Series

RVPX-	Rugged High Speed Board
-------	-------------------------

2. Connector Type

J	Backplane
JE2	Backplane 32 Gbps

3. Insert Size

08	8 position Insert
16	16 position Insert

4. Insert Type

M	Middle
E	End

5. Contact Plating

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

6. Contact Termination Finish

1	Tin	✓ : RoHS compliant
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