

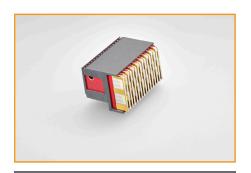
MULTIGIG RT 3 and MULTIGIG RT 2-S Connectors

Board-to-board connectors engineered for the world's most demanding and rugged environments:

- Data transfer rates to 32+ Gb/s
- Modular design with backward interoperability
- Ruggedized multipoint contact system meets VITA vibration standards

MULTIGIG RT 3 AND MULTIGIG RT 2-S CONNECTORS

VPX Advances with TE's MULTIGIG RT Connector Platform



FAST

 Enhanced PCB wafer and contact design supports increased bandwidth up to 32+ Gb/s

FLEXIBLE

- Meets interface requirements for VITA 46 connectors allowing backward compatibility with legacy VPX products
- Customizable to meet unique application requirements

MODULAR

 Modular design enables numerous configurations by interchanging higher-speed MULTIGIG RT 3 connectors with the legacy MULTIGIG RT 2 and MULTIGIG RT 2-R connectors.

RUGGED

 Contact design utilizes quad redundant contacts for optimum performance in shock and vibration TE Connectivity's (TE) MULTIGIG RT 2-S and MULTIGIG RT 3 next generation lightweight, rugged, high speed backplane connectors meet the interface dimensions for VITA 46 VPX connectors.

They are backward compatible with legacy MULTIGIG RT products and offer the same reliable interface.

The new contact and wafer designs optimize signal integrity, extending data rates from 16-32+ GB/s.

APPLICATIONS/MARKETS

- Military Electronics/C4ISR
- Avionics
- Ground Defense
- Missile Defense
- Space

STANDARDS AND SPECIFICATIONS

- Application Specification: 114-163004 (MULTIGIG RT 2, RT 2-R and MULtIGIG RT 3 Signal Connectors)
- Product Specification: 108-2072 (MULTIGIG RT 3)
- Qualification Test Report: 501-544 (MULTIGIG RT 2R) and 501-134091 (MULTIGIG RT 3)
- Electrical Performance Report: 505-2 (RT 3)
- Backplane Connector Removal: 408-10127 (RT 3)
- Daughtercard Connector Removal: 408-10454 (RT 3)
- Standards and Test Reports: #204690 (VITA 72 VPX Connector Report)



PRODUCT OFFERING





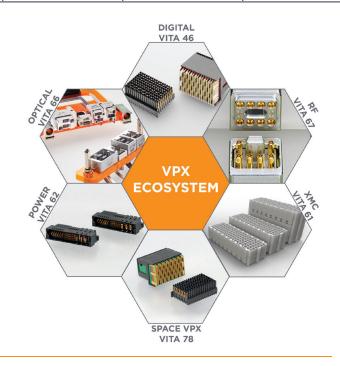




	MULTIGIG RT 2	MULTIGIG RT 2-R	MULTIGIG RT 2-S	MULTIGIG RT 3	
Speeds	10+ Gb/s	10+ GB/S	16+ Gb/s	32+ Gb/s	
Ruggedized	-	✓	✓	✓	
Mating Cycles	200	500	500	500	
Quad-redundant Contact System	-	✓	✓	✓	
Flexibility with Wafer Configuration	✓	√	√	✓	
VITA 46 Intermateable	✓	✓	✓	✓	
PCB Hole Dimension (Backplane)	0.56 (Ref)	0.56 (Ref)	0.56 (Ref)	0.37 (Ref)	
PCB Hole Dimension (Daughtercard)	0.46 (Ref)	0.46 (Ref)	0.46 (Ref) 0.32 (Ref		
Release Date	2003	2013	2019	2019	
Open VPX Standndard	VITA 46.0	VITA 46.0	VITA 46.0	VITA 46.30	

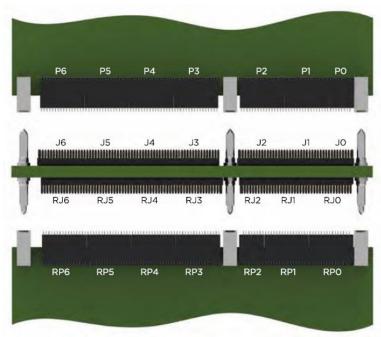
A VERSATILE PORTFOLIO THAT SUPPORTS FLEXIBILIY IN APPLICATIONS:

- PLUG-IN MODULES
- SYSTEMS
- POWER SUPPLIES
- BACKPLANES
- MEZZANINE (XMC) CARDS





VITA 46 VPX PART NUMBERS

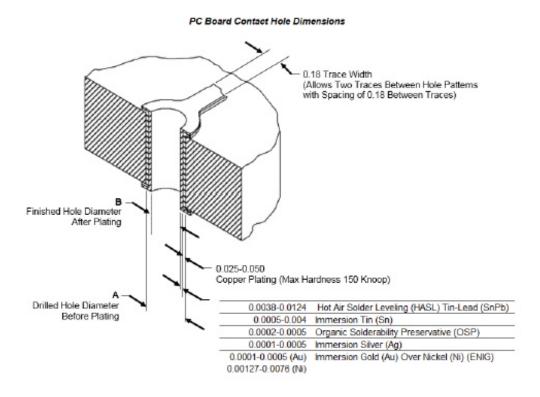


*Reference only *

refe	er to <u>TE Spec</u>	114-163004	for most up to da	te information			_	
			VITA 46 VPX Part	Numbers				_
	RT 2	(10Gb/s)	RT 2-R (Ri	ugged 10Gb/s)	RT 2-S (+16Gb/s)	RT 3 (32+Gb/s)	RT3 Highspeed with Power]
Position	Differential	Single Ended	Differential	Single Ended	Differential	Differential	Differential	1
P0	14	10189-3	210) <u>2772-1</u>	2302318-1	2102772-1 (RT 2-R)	2332816-1	1
P1, 2, 3, 4, 5, 6	1410187-3	1410190-3	2102771-1	2102847-1	2302317-1	2302785-1		Ì
DC Guide	1-14	169492-X	200	0713-X	2000713-X	2000713-X		1
JO	<u>14</u>	<u>10186-1</u>	210) <u>2735-1</u>	2102735-1 (RT 2-R)	2102735-1 (RT 2-R)	2332817-1	
11, 3, 4, 5	<u>14</u>	<u>10140-1</u>	210) <u>2736-1</u>	2102736-1 (RT 2-R)	<u>2302789-1</u>		
J2, 6	<u>14</u>	<u>10142-1</u>	<u>210</u>	<u>)2737-1</u>	2102737-1 (RT 2-R)	<u>2302790-1</u>		
BP Pin	1-14	169491-X	200	0676-X	2000676-X	2000676-X		
				46.10 RTM Part No				
DC	RT 2	(10Gb/s)	RT 2-R (Ru	igged 10Gb/s)	RT 2-S (+	, ,	RT 3	(32+Gb/s)
Position	Differential	Single Ended	Differential	Single Ended	Differential	Single Ended	Differential	Single Ended
RP0	<u>14</u>	<u>10968-3</u>	<u>210</u>) <u>2773-1</u>	<u>23023</u>	<u>19-1</u>	<u>23</u>	<u>)2794-1</u>
RP1, 3, 4, 5, 6	<u>1410975-3</u>	<u>1410970-3</u>	<u>2102774-1</u>	<u>2102849-1</u>	<u>2302320-1</u>	<u>2102849-1</u>	2302795-1	<u>2102849-1</u>
RP2	<u>1410971-3</u>	<u>1410972-3</u>	<u>2102775-1</u>	<u>2102848-1</u>	<u>2302321-1</u>	<u>2102848-1</u>	2302796-1	<u>2102848-1</u>
RTM DC Guide	1-14	169492-X	200	0713-X	20007	′13-X	2000713-X	
ВР		RT2	RT2-R		RT 2-S		RT3	
Position	Full Load	Select Load	Full Load	Select Load	Full Load	Select Load	Full Load	Select Load
RJ0	<u>1410964-1</u>	<u>1410965-1</u>	<u>2102768-1</u>	<u>2102850-1</u>	2102768-1 (RT 2-R)	2102850-1 (RT 2-R)	<u>2302791-1</u>	<u>2302792-1</u>
RJ1	<u>1410140-1</u>	<u>1410966-1</u>	<u>2102736-1</u>	<u>2102851-1</u>	2102736-1 (RT 2-R)	2102851-1 (RT 2-R)	<u>2302789-1</u>	<u>2302793-1</u>
RJ2	<u>1410186-1</u>		<u>2102735-1</u>		2102735-1 (RT 2-R)		2302788-1	
RJ3	<u>1410142-1</u>		<u>2102737-1</u>		2102737-1 (RT 2-R)		<u>2302790-1</u>	
RJ4, 5, 6	<u>1410140-1</u>		<u>2102736-1</u>		2102736-1 (RT 2-R)		2302789-1	
RTM BP Pin	<u>14</u>	<u>10956-1</u>	222	<u> 16127-1</u>	<u>22261</u>	<u>.27-1</u>	22	<u> 26127-1</u>
		M	odules for VITA 66.	4 and 67.1 3U appli	cations			
Position	RT 2	(10Gb/s)	RT 2-R (Ru	igged 10Gb/s)	RT 2-S (+16Gb/s)	RT 3 (32+Gl	o/s)	
P0 + P1A	<u>14</u>	<u>10326-3</u>	228	86250-1	<u>2345723-1</u>	2313237-	1	
J0 + J1A	<u>14</u>	<u>10140-1</u>	210) <u>2736-1</u>	2102736-1 (RT 2-R)	2313238-	1	
JO + J1A Right End	<u>14</u>	<u>10142-1</u>	210) <u>2737-1</u>	<u>2102737-1</u>	2352032-	1	
P1B + P2A	14	<u>10187-3</u>	210) <u>2771-1</u>	<u>2302317-1</u>	2302785-	1	
J1B + J2A	14	10142-1	210	2737-1	<u>2102737-1</u>	2302790-	1	



PC BOARD CONTACT HOLE DIMENSIONS



TIER	CONNECTOR	DIME	DIMENSIONS		
	CONNECTOR	A	B (nominal)		
RT 2	Vertical Receptacle (Backplane)	0.63-0.67	0.56 (Ref)		
RT 2-R	Right-Angle Plug (Daughtercard)	0.53 - 0.57	0.46 (Ref)		
RT 2-S	Right-Angle Flug (Daughtercard)	0.55 - 0.57	0.40 (Rei)		
RT 3	Vertical Receptacle (Backplane)	0.43 - 0.47	0.37 (Ref)		
	Right-Angle Plug (Daughtercard)	0.38 - 0.42	0.32 (Ref)		

NOTE: All holes in the pc board must be precisely located to ensure proper placement and optimum performance. The pc board layout must be designed using the dimensions provided on the customer drawing.

LET'S CONNECT

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Consult TE for the latest dimensions and design specifications.

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