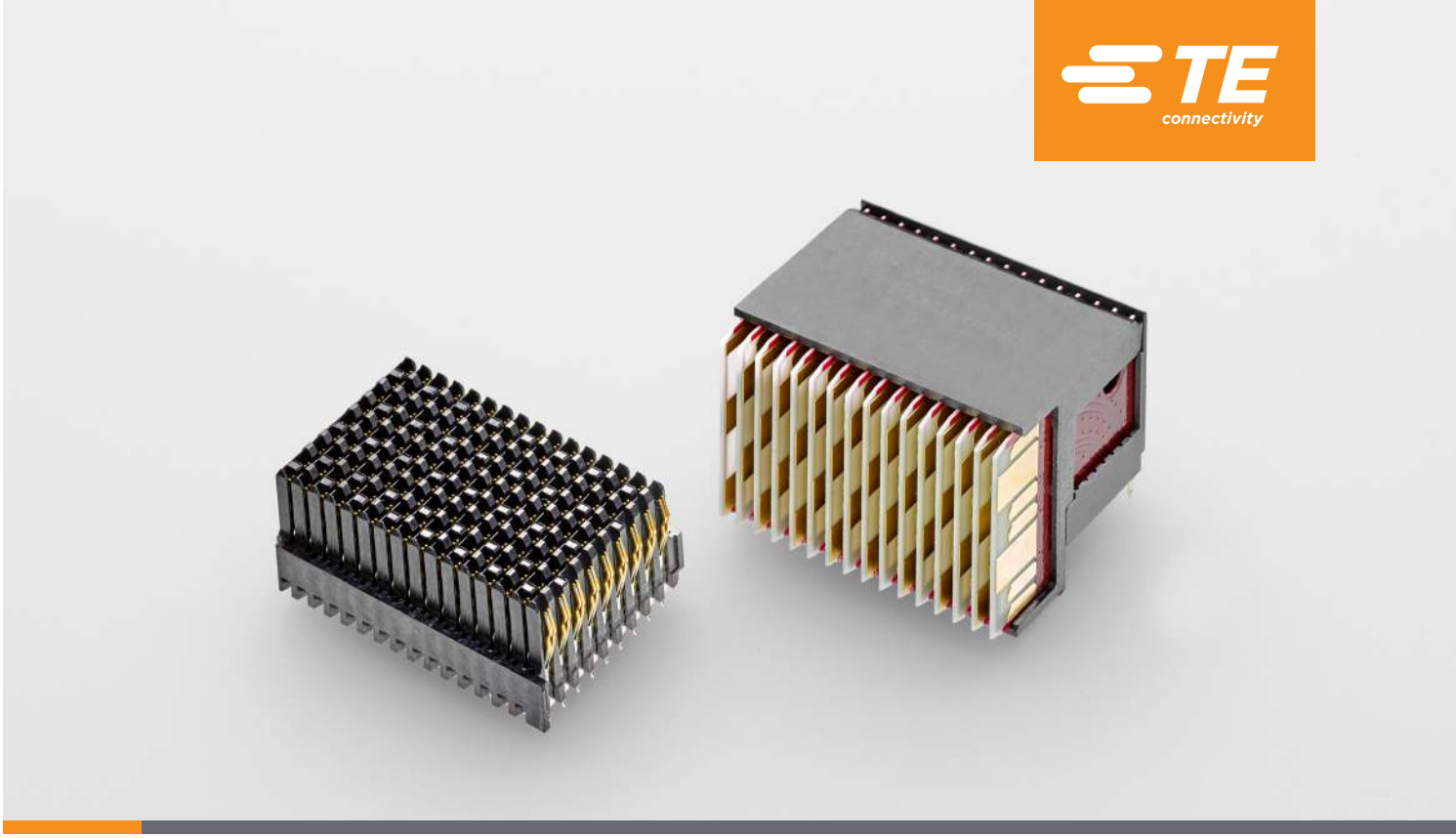


MULTIGIG RT 3 and MULTIGIG RT 2-S Connectors

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.

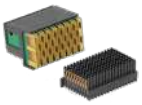
APPLICATIONS/MARKETS

- 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

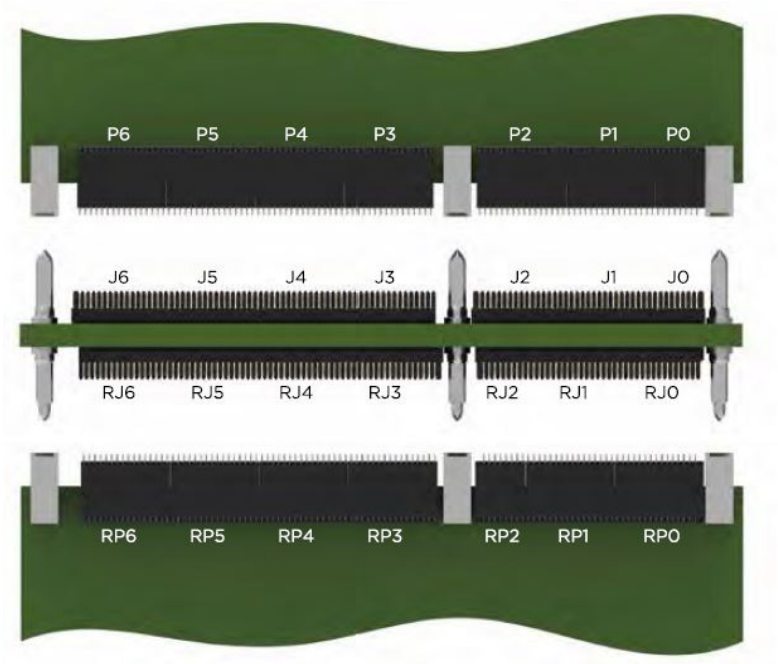



	MULTIGIG RT 2	MULTIGIG RT 2-R	MULTIGIG RT 2-S	MULTIGIG RT 3
Speeds	10+ Gb/s	10+ GB/S	16+ Gb/s	32+ Gb/s
Ruggedized	–	✓	✓	✓
Mating Cycles	200	500	500	500
Quad-redundant Contact System	–	✓	✓	✓
Flexibility with Wafer Configuration	✓	✓	✓	✓
VITA 46 Intermateable	✓	✓	✓	✓
PCB Hole Dimension (Backplane)	0.56 (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 ***

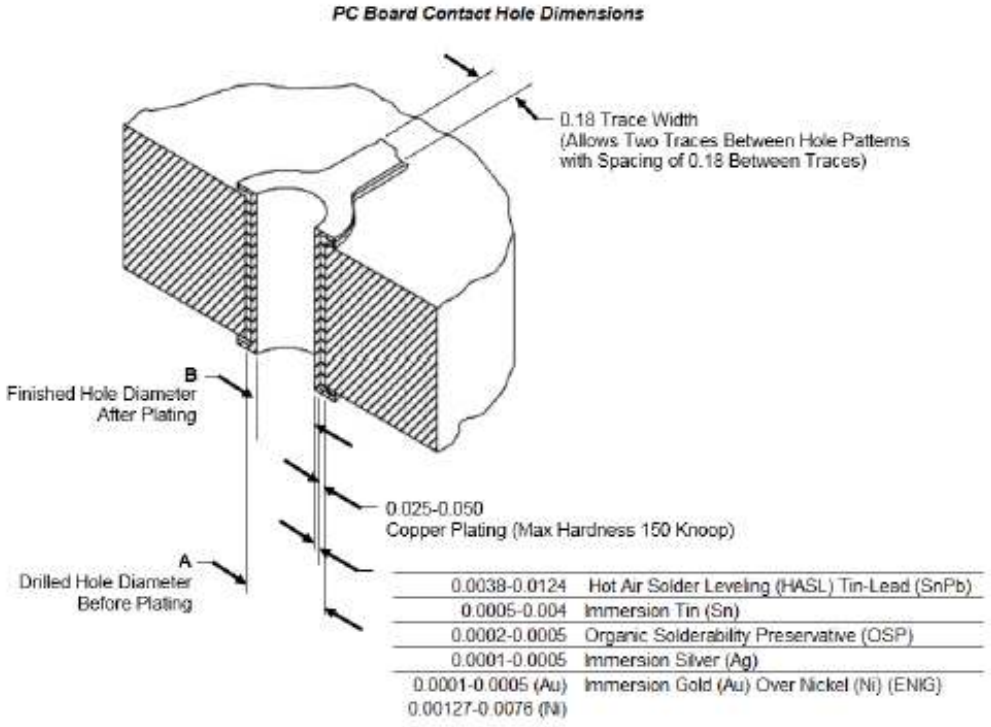
refer to TE Spec 114-163004 for most up to date information

VITA 46 VPX Part Numbers							
	RT 2 (10Gb/s)		**RT 2-R** (Rugged 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
P0	1410189-3		2102772-1		2302318-1	2102772-1 (RT 2-R)	2332816-1
P1, 2, 3, 4, 5, 6	1410187-3	1410190-3	2102771-1	2102847-1	2302317-1	2302785-1	
DC Guide	**1-1469492-X**		**2000713-X**		**2000713-X**	**2000713-X**	
J0	1410186-1		2102735-1		2102735-1 (RT 2-R)	2102735-1 (RT 2-R)	2332817-1
J1, 3, 4, 5	1410140-1		2102736-1		2102736-1 (RT 2-R)	2302789-1	
J2, 6	1410142-1		2102737-1		2102737-1 (RT 2-R)	2302790-1	
BP Pin	**1-1469491-X**		**2000676-X**		**2000676-X**	**2000676-X**	

VITA 46.10 RTM Part Numbers								
DC	RT 2 (10Gb/s)		RT 2-R (Rugged 10Gb/s)		RT 2-S (+16Gb/s)		RT 3 (32+Gb/s)	
Position	Differential	Single Ended	Differential	Single Ended	Differential	Single Ended	Differential	Single Ended
RP0	1410968-3		2102773-1		2302319-1		2302794-1	
RP1, 3, 4, 5, 6	1410975-3	1410970-3	2102774-1	2102849-1	2302320-1	2102849-1	2302795-1	2102849-1
RP2	1410971-3	1410972-3	2102775-1	2102848-1	2302321-1	2102848-1	2302796-1	2102848-1
RTM DC Guide	**1-1469492-X**		**2000713-X**		**2000713-X**		**2000713-X**	
BP	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	1410964-1	1410965-1	2102768-1	2102850-1	2102768-1 (RT 2-R)	2102850-1 (RT 2-R)	2302791-1	2302792-1
RJ1	1410140-1	1410966-1	2102736-1	2102851-1	2102736-1 (RT 2-R)	2102851-1 (RT 2-R)	2302789-1	2302793-1
RJ2	1410186-1		2102735-1		2102735-1 (RT 2-R)		2302788-1	
RJ3	1410142-1		2102737-1		2102737-1 (RT 2-R)		2302790-1	
RJ4, 5, 6	1410140-1		2102736-1		2102736-1 (RT 2-R)		2302789-1	
RTM BP Pin	1410956-1		2226127-1		2226127-1		2226127-1	

Modules for VITA 66.4 and 67.1 3U applications				
Position	RT 2 (10Gb/s)	RT 2-R (Rugged 10Gb/s)	RT 2-S (+16Gb/s)	RT 3 (32+Gb/s)
P0 + P1A	1410326-3	2286250-1	2345723-1	2313237-1
J0 + J1A	1410140-1	2102736-1	2102736-1 (RT 2-R)	2313238-1
J0 + J1A Right End	1410142-1	2102737-1	2102737-1	2352032-1
P1B + P2A	1410187-3	2102771-1	2302317-1	2302785-1
J1B + J2A	1410142-1	2102737-1	2102737-1	2302790-1

PC BOARD CONTACT HOLE DIMENSIONS



TIER	CONNECTOR	DIMENSIONS	
		A	B (nominal)
RT 2 RT 2-R RT 2-S	Vertical Receptacle (Backplane)	0.63-0.67	0.56 (Ref)
	Right-Angle Plug (Daughtercard)	0.53 - 0.57	0.46 (Ref)
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

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit te.com to chat with a Product Information Specialist.

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