

1410189-4 ✓ ACTIVE

MULTIGIG RT | MULTIGIG RT 2

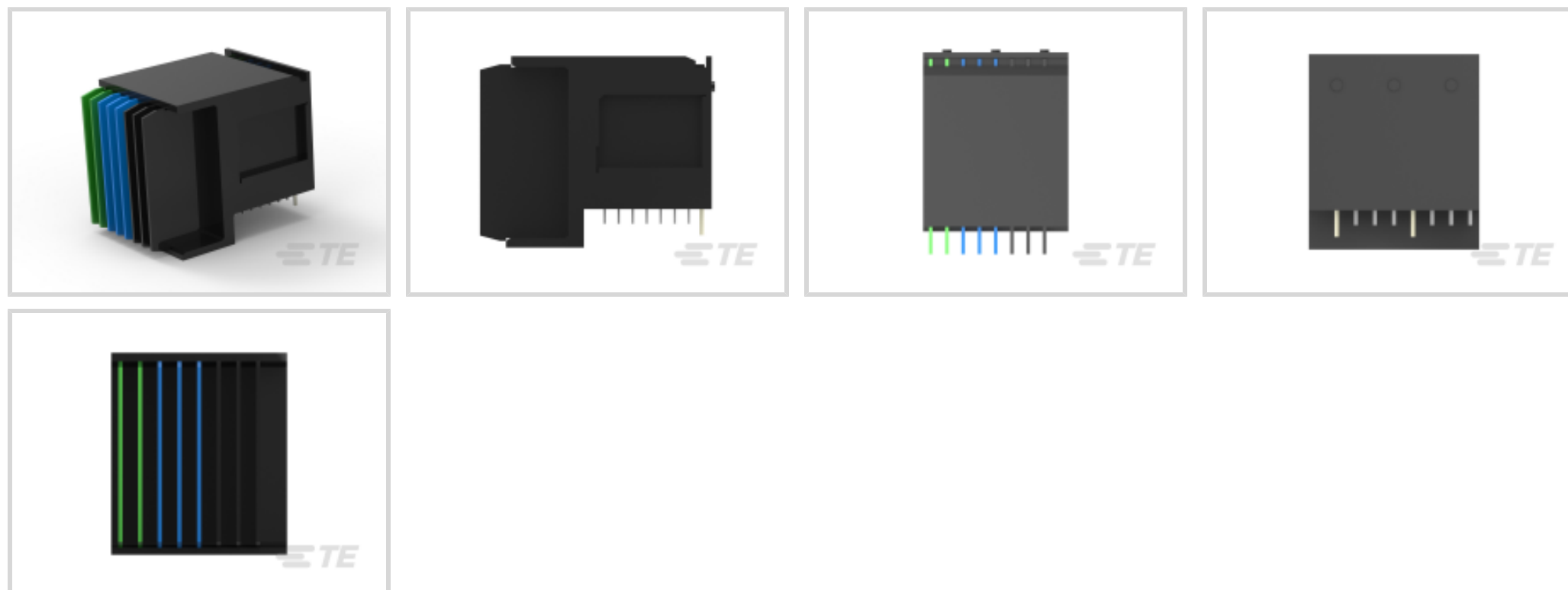
TE Internal #: 1410189-4

High Speed Backplane Connectors, Board-to-Board, 56 Position, Mating Alignment, Polarization Mating Alignment Type, 7 Row, 8 Column, MULTIGIG RT 2

[View on TE.com >](#)



Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



Connector System: **Board-to-Board**

Number of Positions: **56**

Row-to-Row Spacing: **1.35 mm [ .053 in ]**

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

## Features

### Product Type Features

Backplane Module Type	Left
Signal Arrangement	Differential Signaling & Single Ended
Applied to Printed Circuit Board Type	Daughtercard
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Header
Shroud Style	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Pairs per Column	2
Number of Ground Positions	11
Card Slot Centerline	20.3 mm [.8 in]
Number of Power Positions	6
Mating & Unmating Configuration	Make First / Break Last



Number of Signal Positions	4
Number of Positions	56
Number of Rows	7
Number of Columns	8
Backplane Architecture	Traditional Backplane
PCB Mount Orientation	Right Angle
Guide Location	Left

### Electrical Characteristics

Operating Voltage	50 VAC
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### Signal Characteristics

Differential Impedance	100 $\Omega$
Number of Differential Pairs per Column	2
Data Rate	$\leq 12$ Gb/s

### Contact Features

Contact Layout	Matrix
Contact Mating Area Length	1.41 mm [.055 in]
PCB Contact Termination Area Plating Material Thickness	.5 $\mu\text{m}$ [20 $\mu\text{in}$ ]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Brass, Phosphor Bronze
Contact Current Rating (Max)	1 A

### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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### Mechanical Attachment

PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail
Mating Alignment	With
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount

### Housing Features

Number of Shrouded Sides	2
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Centerline (Pitch)	1.8 mm[.071 in]
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### Dimensions

Row-to-Row Spacing	1.35 mm[.053 in]
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### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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### Operation/Application

Durability Rating	500 Cycles
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Circuit Application	Power & Signal
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### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2022 (223) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC
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Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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Solder Process Capability	Not applicable for solder process capability
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#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

### Compatible Parts




TE Part # 2000676-1  
Keyed Guide Pin, Machined, Vita 46



TE Part # 2000713-1  
RA Keyed Guide Mod, Vita 46, Machined

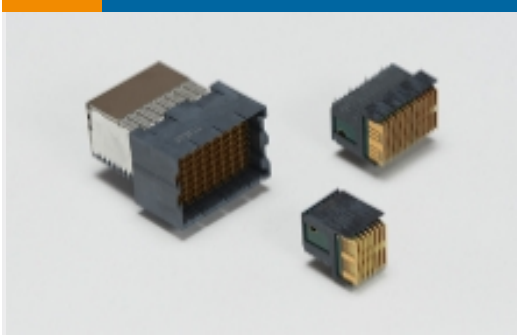


TE Part # 2302785-1  
RA PLUG ASSY, 7ROW, CENTER, VPX, MG RT3



TE Part # 2302317-1  
RA ASSY, 7 Row, Cent DP, MULTIGIG RT 2-S

## Also in the Series | MULTIGIG RT 2



High Speed Backplane Connectors(42)

## Customers Also Bought




TE Part #5179029-6  
0.8FH, P06H.5, 140, 08/Sn, TU



TE Part #1-1469492-9  
MULTIGIG RT 9MM GUIDE/ESD UNKE



TE Part #5207872-1  
KIT SCREWLOCK FEMALE (METRIC)



TE Part #1410975-4  
MULTIGIG RT2 7RW DC RTM CT



TE Part #104069-3  
80 SYSTEM 50 HDR DRRR SHRD



TE Part #2102772-2  
Plug Assy, R Angle, 7Row, Left, MG, RUG



TE Part #1410968-4  
MULTIGIG RT2 7RW RTM DC DF CT



TE Part #1410188-4  
MULTIGIG RT T2 7RW DC DF F-RGT



TE Part #1410971-4  
MULTIGIG RT T2 7RW H-LFT RTM



## Documents

### Product Drawings

[MULTIGIG RT T2 7RW H-LFT,ET2](#)

English

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### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1410189-4\\_D.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1410189-4\\_D.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1410189-4\\_D.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

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### Datasheets & Catalog Pages

[Board-Level Interconnects for Rugged Embedded Computing Brochure](#)

English

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### Product Specifications

[Electrical Performance Report](#)

English

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### Product Environmental Compliance

[MD\\_1410189-4\\_12142017142\\_dmtec](#)

English

[MD\\_1410189-4\\_12142017142\\_dmtec](#)

English