

1410326-3 ✓ ACTIVE

MULTIGIG RT | MULTIGIG RT 2

TE Internal #: 1410326-3

High Speed Backplane Connectors, 112 Position, Mating Alignment, Guide Slot Mating Alignment Type, 7 Row, 16 Column, PCB Mount Header, MULTIGIG RT 2

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Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



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

Number of Positions: **112**

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

Mating Alignment: **With**

Mating Alignment Type: **Guide Slot**

### Features

#### Product Type Features

Backplane Module Type	Center
Applied to Printed Circuit Board Type	Daughtercard
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Header
Shroud Style	Fully Shrouded
Connector & Contact Terminates To	Printed Circuit Board

#### Configuration Features

Number of Ground Positions	31
Card Slot Centerline	20.3 mm[.8 in]
Number of Pairs	20
Backplane Architecture	Traditional Backplane
Number of Positions	112
Number of Rows	7
Number of Columns	16
PCB Mount Orientation	Right Angle
Guide Location	Right

#### Electrical Characteristics



Impedance	100 $\Omega$
Operating Voltage	50 VAC

### Signal Characteristics

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

### Body Features

Primary Product Color	Black
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### Contact Features

Contact Mating Area Length	2.9 mm[.8 in]
PCB Contact Termination Area Plating Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
Contact Layout	Inline
Contact Type	Pin
Contact Underplating Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
Contact Mating Area Plating Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
Contact Mating Area Plating Material	Gold
PCB Contact Termination Area Plating Material Finish	Bright
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Copper
Contact Current Rating (Max)	1 A

### Termination Features

Termination Post & Tail Length	1.4 mm[.055 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

### Mechanical Attachment

Guide Hardware	With
Mating Retention	With
PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail
Mating Alignment	With
Mating Alignment Type	Guide Slot



Connector Mounting Type

Board Mount

### Housing Features

Number of Shrouded Sides

2

Housing Material

LCP (Liquid Crystal Polymer)

Centerline (Pitch)

1.8 mm[.07 in]

### Dimensions

Connector Length

28.68 mm[1.129 in]

Connector Height

18.4 mm[.724 in]

PCB Thickness (Recommended)

1.6 – 4 mm[.062 – .157 in]

PCB Hole Diameter

.46 mm[.018 in]

Row-to-Row Spacing

1.35 mm[.053 in]

### Usage Conditions

Operating Temperature Range

-55 – 105 °C[-67 – 221 °F]

### Operation/Application

Durability Rating

500 Cycles

Circuit Application

Power &amp; Signal

### Packaging Features

Packaging Method

Tube

## Product Compliance

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

EU RoHS Directive 2011/65/EU

Not Compliant

EU ELV Directive 2000/53/EC

Not Compliant

China RoHS 2 Directive MIIT Order No 32, 2016

Restricted Materials Above Threshold

EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUNE 2023  
(235)  
Candidate List Declared Against: JAN 2021  
(211)  
SVHC > Threshold:  
Pb (7% in contact plating)  
**Article Safe Usage Statements:**  
Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

Halogen Content

BFR/CFR/PVC Free, but Br/Cl &gt;900 ppm in other sources.

Solder Process Capability

Not applicable for solder process capability



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

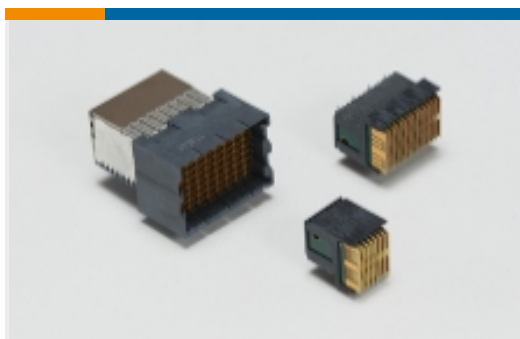


TE Part # 2000676-1  
Keyed Guide Pin, Machined, Vita 46



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

### Also in the Series | MULTIGIG RT 2



High Speed Backplane Connectors(42)

### Customers Also Bought



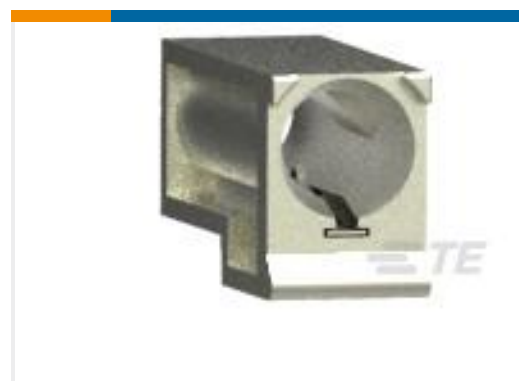
TE Part #2102060-2  
High-speed Mezzanine Connector: Pin & Socket Connector



TE Part #2309407-2  
DDR4 SODIMM 260P 4.0H STD



TE Part #2000713-2  
RA Keyed Guide Mod. Vita 46, Machined



TE Part #1-1469492-8  
MULTIGIG RT 9MM GUIDE/ESD 315 DEG



## Documents

### Product Drawings

[MULTIGIG RT T2 7RW DC DF CT](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1410326-3\\_B.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1410326-3\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1410326-3\\_B.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[SOSA Aligned Interconnect Solutions](#)

English

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

English