

2302796-1 ✓ ACTIVE

MULTIGIG RT 3

TE Internal #: 2302796-1

56 Position High Speed Backplane Connector, 7 Row, 8 Column,
PCB Mount Header, Right Angle, Unshrouded, 1.8 mm [.075 in]
Centerline, MULTIGIG RT 3

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



Number of Positions: **56**

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

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Number of Rows: **7**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Signal Arrangement | Differential |
| Connector & Contact Terminates To | Printed Circuit Board |
| Compatible with PCB Type | Daughtercard |
| Connector System | Board-to-Board |
| PCB Connector Type | PCB Mount Header |
| Shroud Style | Unshrouded |

Configuration Features

| | |
|----------------------------|-----------------------|
| Number of Pairs | 16 |
| Number of Power Positions | 0 |
| Number of Ground Positions | 20 |
| Backplane Architecture | Traditional Backplane |
| Number of Signal Positions | 4 |
| Card Slot Centerline | 20.3 mm [.8 in] |
| Number of Positions | 56 |
| Number of Rows | 7 |
| Number of Columns | 8 |
| PCB Mount Orientation | Right Angle |
| Guide Location | Unguided |



Signal Characteristics

| | |
|---|--------------|
| Number of Differential Pairs per Column | 2 |
| Differential Impedance | 100 Ω |

Contact Features

| | |
|------------------------------|-----|
| Contact Current Rating (Max) | 1 A |
|------------------------------|-----|

Termination Features

| | |
|---------------------------|--------------------------|
| Termination Method to PCB | Through Hole - Press-Fit |
|---------------------------|--------------------------|

Mechanical Attachment

| | |
|-------------------------|-------------|
| Mating Alignment | With |
| Mating Alignment Type | Keyed |
| Connector Mounting Type | Board Mount |

Housing Features

| | |
|--------------------------|---------------------------------|
| Housing Material | Liquid Crystal Polymer (LCP) GF |
| Number of Shrouded Sides | 2 |
| Centerline (Pitch) | 1.8 mm [.075 in] |

Dimensions

| | |
|--------------------|-------------------|
| Row-to-Row Spacing | 1.35 mm [.053 in] |
|--------------------|-------------------|

Usage Conditions

| | |
|-----------------------------|-----------------------------|
| Operating Temperature Range | -55 – 125 °C [-67 – 257 °F] |
|-----------------------------|-----------------------------|

Operation/Application

| | |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

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 | 有害物质含量超出标准 Restricted Substance(s) Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC |



| | |
|-----------------|--|
| Halogen Content | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources. |
|-----------------|--|

| | |
|---------------------------|--|
| Solder Process Capability | Not applicable for solder process capability |
|---------------------------|--|

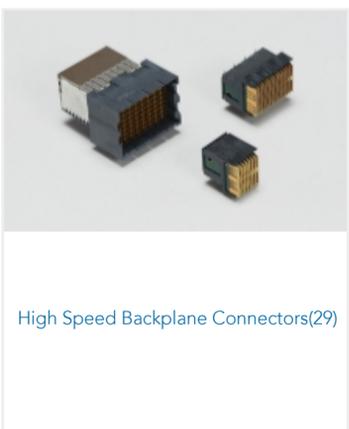
Product Compliance Disclaimer

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



Also in the Series | MULTIGIG RT 3



Customers Also Bought



Documents

Product Drawings

[RAPLUGASSY,LEFTEND,HALF,RTM,VPX,MGRT3](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2302796-1_2.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2302796-1_2.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2302796-1_2.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages



MULTIGIG RT 3 and RT 2-S Connectors

English

Product Specifications

Application Specification

English