

1410189-1 ✓ ACTIVE

MULTIGIG RT | MULTIGIG RT 2

TE Internal #: 1410189-1

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

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Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



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

Number of Positions: **56**

Row-to-Row Spacing: **.05 mm [1.35 in]**

Mating Alignment: **With**

Mating Alignment Type: **Guide Slot**

Features

Product Type Features

Backplane Module Type	Half Left
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

Number of Ground Positions	11
Card Slot Centerline	20.3 mm[.8 in]
Mating & Unmating Configuration	Make First / Break Last
Number of Pairs	4
Stackable	No
Number of Signal Positions	16
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

Impedance	100 Ω
Operating Voltage	50 VAC

Signal Characteristics

Differential Impedance	100 Ω
Number of Differential Pairs per Column	2
Data Rate	≤ 12 Gb/s

Contact Features

Contact Layout	Inline
Contact Mating Area Length	2.9 mm[.8 in]
PCB Contact Termination Area Plating Material Thickness	1.27 μm [50 μin]
Contact Type	Pin
Contact Mating Area Plating Material Thickness	.76 μm [30 μin]
Contact Mating Area Plating Material	Gold
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Phosphor Bronze
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

Mating Retention	With
PCB Mount Alignment	With
Guide Hardware	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)
Housing Color	Black
Centerline (Pitch)	1.8 mm[.071 in]

Dimensions

Connector Length	16.08 mm
Connector Height	18.4 mm[.724 in]
PCB Thickness (Recommended)	1.6 – 4 mm[.062 – .157 in]
Row-to-Row Spacing	.05 mm[1.35 in]

Usage Conditions

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

Durability Rating	500 Cycles
Circuit Application	Power & 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	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) 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 >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)

Documents

Product Drawings

MULTIGIG RT T2 7RW H-LFT,ET2

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1410189-1_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1410189-1_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1410189-1_D.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 Connector Products for VITA 46 (VPX) Standard

English

Product Specifications

Electrical Performance Report

English

Instruction Sheets

Instruction Sheet (U.S.)

English