



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



Number of Positions: 112
Row-to-Row Spacing: 1.35 mm [.053 in]
Mating Alignment: With
Mating Alignment Type: Guide Slot
Number of Rows: 7

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

Operating Voltage	50 VDC
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Impedance	100 Ω
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Signal Characteristics

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

Body Features

Primary Product Color	Black
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Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 μm[50 μin]
PCB Contact Termination Area Plating Material Finish	Bright
Contact Mating Area Plating Material Thickness	1.27 μm[50 μin]
PCB Contact Termination Area Plating Material Thickness	1.27 μm[50 μin]
Contact Layout	Inline
Contact Mating Area Plating Material	Gold (Au)
Contact Mating Area Length	2.9 mm[.8 in]
Contact Base Material	Copper
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Type	Pin
Contact Current Rating (Max)	1 A

Termination Features

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

Mechanical Attachment

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



Housing Features

Number of Shrouded Sides	2
Housing Material	LCP
Centerline (Pitch)	1.8 mm[.07 in]

Dimensions

PCB Thickness (Recommended)	1.6 – 4 mm[.062 – .157 in]
PCB Hole Diameter	.46 mm[.018 in]
Connector Height	18.4 mm[.724 in]
Connector Length	28.68 mm[1.129 in]
Row-to-Row Spacing	1.35 mm[.053 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

Packaging Features

Packaging Method	Tube
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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	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (13% in 4690948374) 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



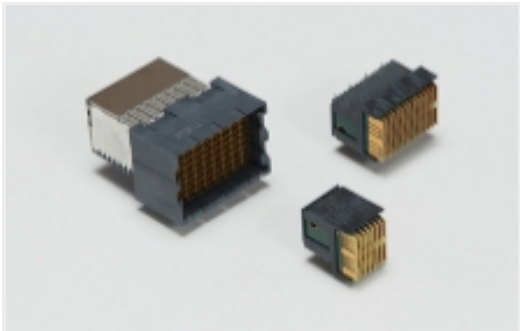
TE Part # 2000676-1
Keyed Guide Pin, Machined, Vita 46



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

Also in the Series

MULTIGIG RT 2



High Speed Backplane Connectors(39)

Customers Also Bought



TE Part #2102061-2
Mezalok, Socket, 114 p, 10 mm, 50 Au, LF



TE Part #9669603002
44M9976-26-2L



TE Part #1410189-4
MULTIGIG RT T2 7RW H-LFT,ET2



TE Part #2323863-3
V67.3 PLUG-IN C MODULE, 10 POS, AL



TE Part #1757640-1
SMPM MALE, PCB EDGE MOUNT,
FULL DETENT



TE Part #2359410-1
ASSEMBLY, HYBRID NanoRF/MT DC
MODULE



TE Part #1469025-1
HM-ZD 2PR HDR 40P 2.5MM



TE Part #1410187-4
MULTIGIG RT T2 7RW DC DF CT



TE Part #1410946-3
MULTI-GIG SOC. CAP SCREW,
CUSTOMIZED HDW



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

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

Product Specifications

Application Specification

English