



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



Number of Positions: 96
Row-to-Row Spacing: 1.25 mm [.05 in]
Mating Alignment: With
Mating Alignment Type: Polarization
Number of Rows: 8

Features

Signal Characteristics

Data Rate	20 Gb/s
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Electrical Characteristics

Operating Voltage	30 VAC
Impedance	30 Ω

Industry Standards

UL Flammability Rating	UL 94V-0
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Termination Features

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	1.6 mm[.681 in]

Body Features

Shield Material	Copper Alloy
Primary Product Color	Natural

Packaging Features

Packaging Method	Tray
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Operation/Application

Durability Rating	250 Cycles
Circuit Application	Signal



Contact Features

Contact Underplating Material	Nickel
Contact Shape & Form	Dual Beam
PCB Contact Termination Area Plating Material Thickness	.5 – 2.5 µm[20 – 100 µin]
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Type	Receptacle
Contact Current Rating (Max)	.5 A

Housing Features

Number of Shrouded Sides	0
End Wall Location	None
Housing Material	LCP (Liquid Crystal Polymer)
Centerline (Pitch)	1.45 mm[.057 in]

Product Type Features

Connector & Contact Terminates To	Printed Circuit Board
Connector System	Board-to-Board
Backplane Module Type	Center
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Unshrouded

Mechanical Attachment

Guide Hardware	Without
PCB Mount Retention	With
Mating Retention	Without
PCB Mount Retention Type	Action/Compliant Tail
PCB Mount Alignment	With
Mating Alignment	With
Mating Alignment Type	Polarization

Dimensions

PCB Thickness (Recommended)	1.2 mm
Connector Width	17.3 mm[.681 in]
PCB Hole Diameter	.4 mm[.016 in]
Connector Height	12.51 mm[.493 in]



Connector Length	24.5 mm[.965 in]
Row-to-Row Spacing	1.25 mm[.05 in]

Configuration Features

Number of Pairs	48
Number of Signal Positions	96
Stackable	Yes
Pairs per Column	8
Number of Positions	96
Number of Rows	8
Number of Columns	12
PCB Mount Orientation	Right Angle

Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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 # 2042088-2
Vert.Male, IEC L2




TE Part # 1551012-2
Vert.Male, IEC L3



TE Part # 1982738-2
Female Connector IEC

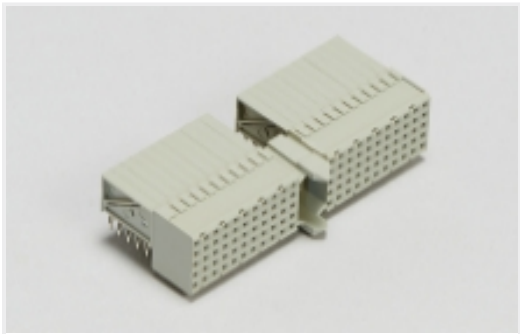


TE Part # 2042162-2
Right Angle Male Connector

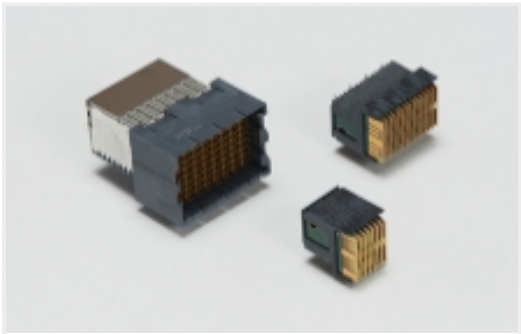


TE Part # 2042139-2
RA Male Connector, IEC L3

Also in the Series | Z-PACK Slim UHD



Hard Metric Backplane Connectors(2)



High Speed Backplane Connectors(12)

Customers Also Bought



TE Part #2101510-2
4 Pos RF Module, Backplane, OSM PASSIVA



TE Part #1-6450869-4
V/R 2ACP+1LP+32S+3HDP+1LP+1P



TE Part #2102735-1
BP, Half Left End, MULTIGIG RT 2R



TE Part #2102737-1
BP, Right End, MULTIGIG RT 2R



TE Part #1410140-1
MULTIGIG RT T2 .8" BP FULL CNT



TE Part #CAT-ZD-BPC-RECEP
Backplane Connector: PCB Mount Receptacle, 120 position



TE Part #1410142-2
MULTIGIG RT T2 .8" BP FULL RGH



TE Part #2000676-7
Keyed Guide Pin, Machined

Documents

Product Drawings

Female Connector

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1857657-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1857657-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1857657-2_A.3d_stp.zip

English

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

Datasheets & Catalog Pages

High Speed Backplane Connectors catalog - Z-PACK Slim UHD Connector

English

Z-Pack Slim UHD Connector Platform

English

Agency Approvals

UL Report

English

1857657-2

96 Position High Speed Backplane Connector, 8 Row, 12 Column, PCB Mount
Receptacle, Right Angle, Unshrouded, Z-PACK Slim UHD

