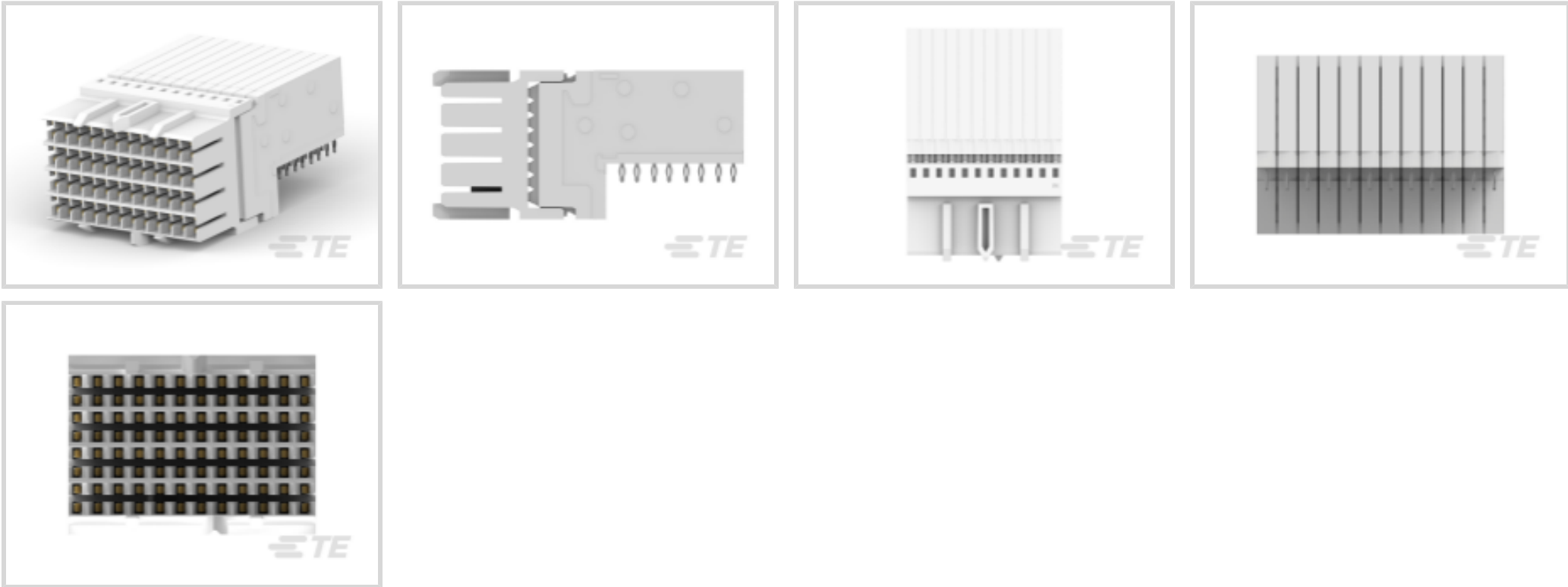




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



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

Product Type Features

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

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
Electrical Characteristics	
Operating Voltage	30 VAC
Impedance	100 Ω
Signal Characteristics	
Data Rate	20 Gb/s
Number of Differential Pairs per Column	2
Body Features	
Shield Material	Copper Alloy
Primary Product Color	Natural
Contact Features	
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material Finish	Matte
PCB Contact Termination Area Plating Material Thickness	.5 – 2.5 μm[20 – 100 μin]
Contact Shape & Form	Dual Beam
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Type	Receptacle
Contact Current Rating (Max)	.5 A
Termination Features	
Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	1.6 mm[.681 in]
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
Housing Features	
Number of Shrouded Sides	0



End Wall Location	None
Housing Material	LCP
Centerline (Pitch)	1.45 mm[.057 in]

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]

Usage Conditions

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

Durability Rating	200 Cycles
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Tray
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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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 2042162-1
Right Angle Male Connector



TE Part # 1551012-1
Vert.Male, Telcordia L3



TE Part # 2042088-1
Vert.Male, Telcordia L2

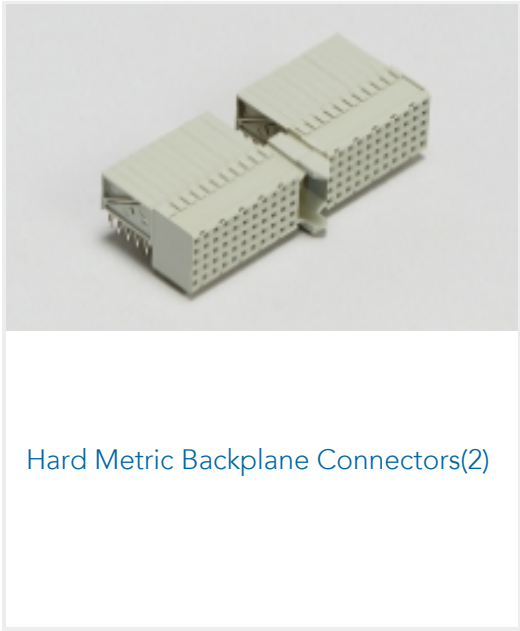


TE Part # 1551099-1
Vert.Male, Telcordia Pre-post 1x

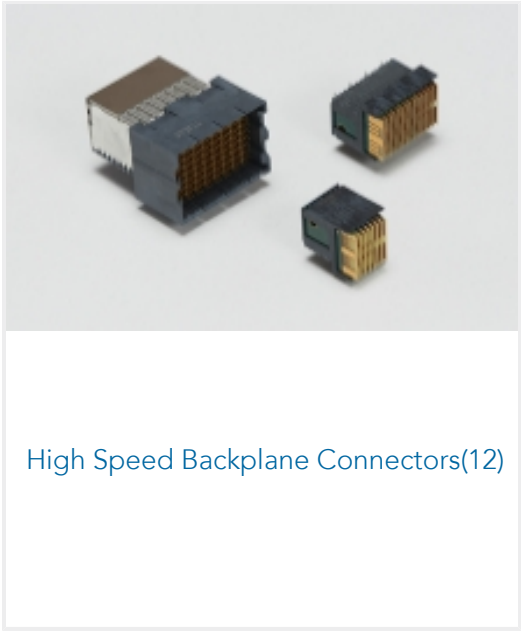


TE Part # 2170919-1
Right Angle Male Connector

Also in the Series | Z-PACK Slim UHD



Hard Metric Backplane Connectors(2)



High Speed Backplane Connectors(12)

Customers Also Bought



TE Part #1551099-1
Vert.Male, Telcordia Pre-post 1x

TE Part #1982738-1
Female Connector Telcordia

TE Part #ZPF000000000015291
DMC-M 20-22 AN

TE Part #3-1676913-6
YR1 0.1% 221K

TE Part #ZPF000000000110281
732-8255-22

TE Part #1551012-1
Vert.Male, Telcordia L3

TE Part #1888631-1
Cage Assy PCI Hsink QSFP Thru

TE Part #1658939-3
SFP 1X6 CAGE & LIGHT PIPE KIT

TE Part #3-1676914-6
YR1 0.1% 475K

TE Part #ZPF000000000100794
DMC-MD 20 C

Documents

Product Drawings
Female Connector

English

CAD Files
3D PDF

3D

Customer View Model
ENG_CVM_CVM_1857657-1_A.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_1857657-1_A.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_1857657-1_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

Product Specifications

Application Specification

English

Instruction Sheets

Customer Manual (non U.S.)

German

Agency Approvals

UL Report

English