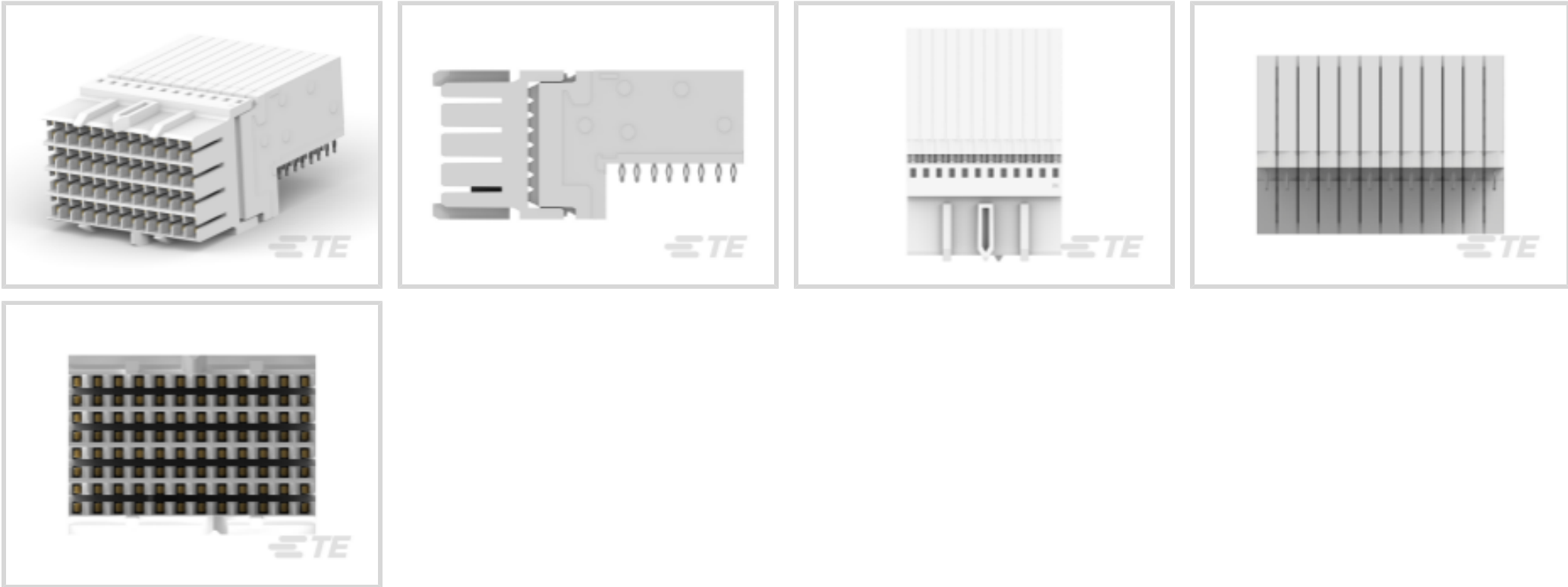




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Connector System: **Board-to-Board**
Number of Positions: **96**
Row-to-Row Spacing: **1.25 mm [.05 in]**
Mating Alignment: **With**
Mating Alignment Type: **Polarization**

Features

Product Type Features

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

Configuration Features

Pairs per Column	8
Number of Pairs	48
Stackable	Yes
Number of Signal Positions	96
Number of Positions	96
Number of Rows	8
Number of Columns	12



PCB Mount Orientation	Right Angle
Electrical Characteristics	
Impedance	100 Ω
Operating Voltage	30 VAC
Signal Characteristics	
Number of Differential Pairs per Column	2
Data Rate	20 Gb/s
Body Features	
Shield Material	Copper Alloy
Primary Product Color	Natural
Contact Features	
PCB Contact Termination Area Plating Material Thickness	.5 – 2.5 μm[20 – 100 μin]
Contact Type	Receptacle
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Dual Beam
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	.5 A
Termination Features	
Termination Post & Tail Length	1.6 mm[.681 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit
Mechanical Attachment	
Guide Hardware	Without
Mating Retention	Without
PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail
Mating Alignment	With
Mating Alignment Type	Polarization
Housing Features	
Number of Shrouded Sides	0



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

Dimensions

Connector Length	24.5 mm[.965 in]
Connector Height	12.51 mm[.493 in]
Connector Width	17.3 mm[.681 in]
PCB Thickness (Recommended)	1.2 mm
PCB Hole Diameter	.4 mm[.016 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: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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



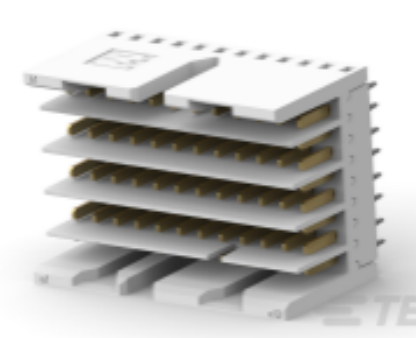
Product Compliance Disclaimer

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



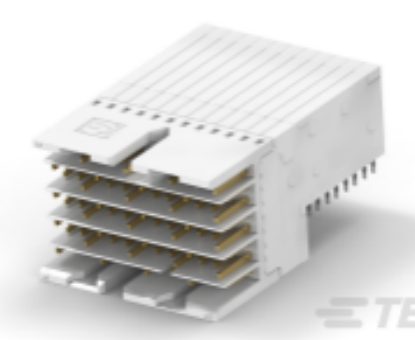
TE Part # 2042088-1
Vert.Male, Telcordia L2



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

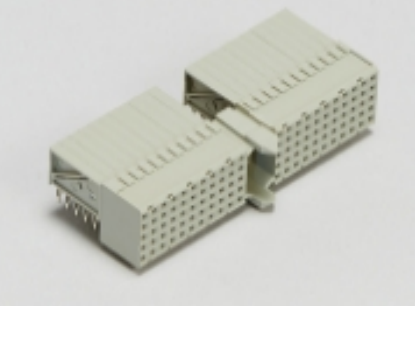


TE Part # 1551099-1
Vert.Male, Telcordia Pre-post 1x

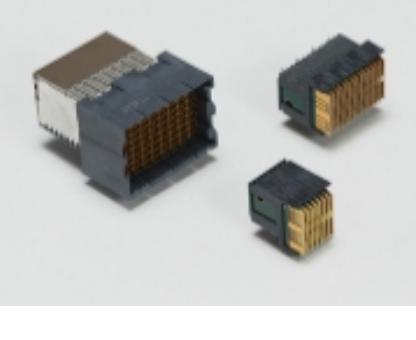


TE Part # 2170919-1
Right Angle Male Connector

Also in the Series | Z-PACK Slim UHD



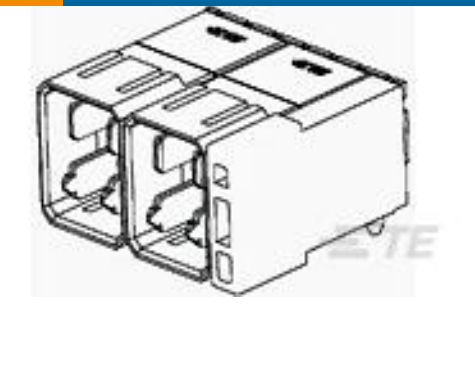
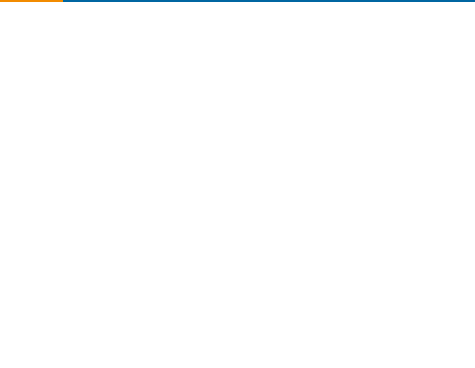
Hard Metric Backplane Connectors(2)



High Speed Backplane Connectors(14)

Customers Also Bought



 TE Part #171638-1 MINI U-M-N-L PIN CONT. L.P	 TE Part #1658744-3 SFP 1X4 CAGE ASSY	 TE Part #2328508-2 CAGE ASSY W/ HS 1X2 QSFP-DD	 TE Part #4-6600333-3 MBXL VERT HDR 2ACP+24S+2ACP
 TE Part #2180851-1 IMP,PWR,3PR,HDR,R-HLD,1X,797-1,N /A	 TE Part #2304921-3 ZSFP+ 1X8 CAGE ASSEMBLY, PRESS-FIT	 TE Part #2317416-3 OSFP 1X1 CAGE ASSMBLY	 TE Part #2361706-1 CAGE ASSY, QSFP -DD 1X1, CUST HS
 TE Part #2384280-1 RCPT CONN R/A SMT 76 POSN QSFP-DD WSHRS			

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



Z-Pack Slim UHD Connector Platform

English

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

English

Product Specifications

Application Specification

English

Product Environmental Compliance

TE Material Declaration

English

Instruction Sheets

Customer Manual (non U.S.)

German

Agency Approvals

UL Report

English