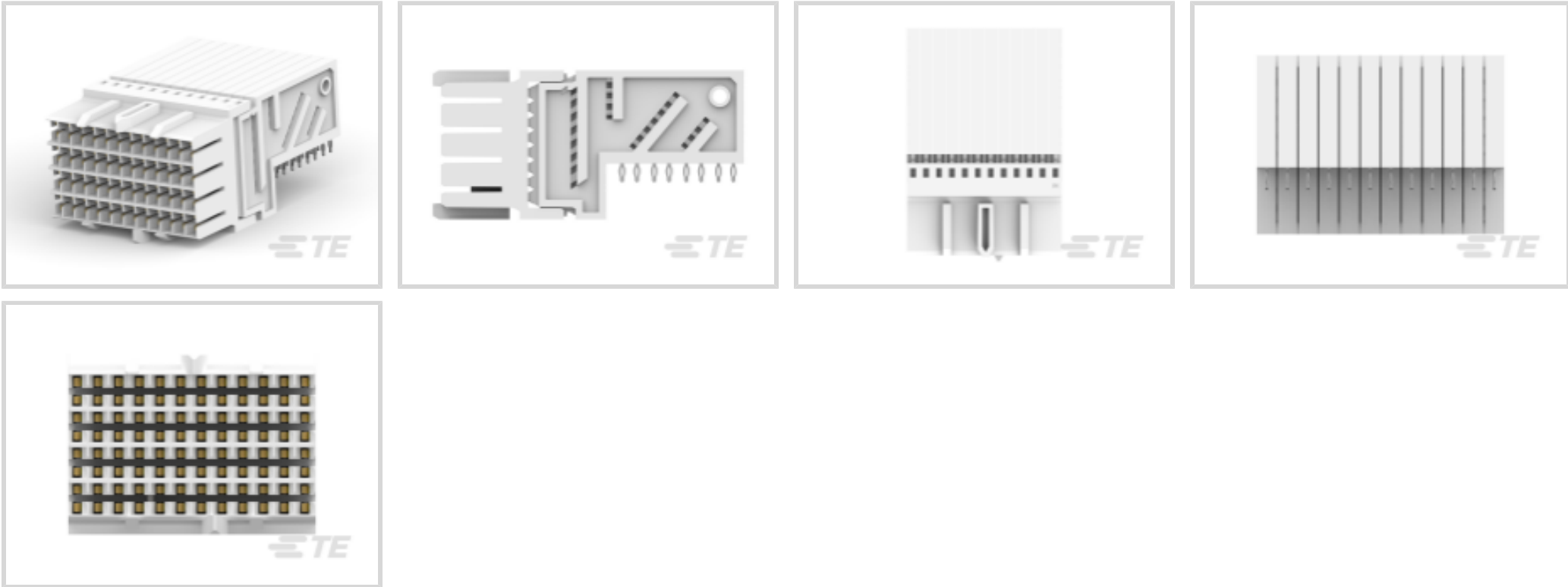




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Connector System: **Board-to-Board**
Number of Positions: **192**
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	96
Stackable	Yes
Number of Signal Positions	192
Number of Positions	192
Number of Rows	8
Number of Columns	12



PCB Mount Orientation	Right Angle
Electrical Characteristics	
Impedance	30 Ω
Operating Voltage	30 VAC
Signal Characteristics	
Number of Differential Pairs per Column	2
Data Rate	3.5 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>

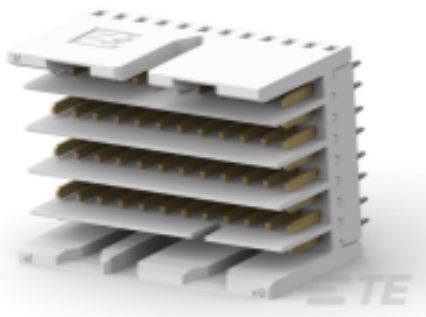
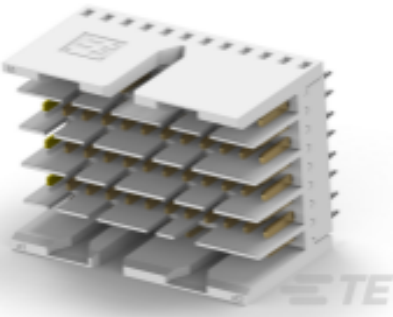
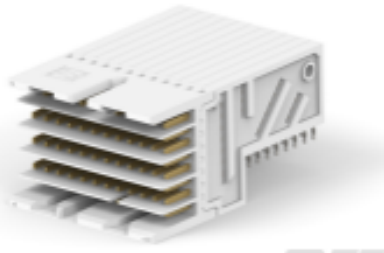
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) Does 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



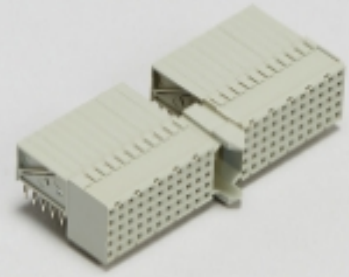
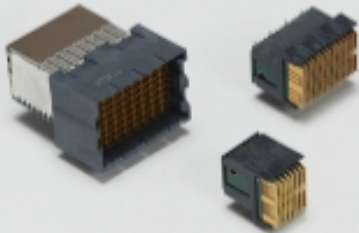
Product Compliance Disclaimer

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

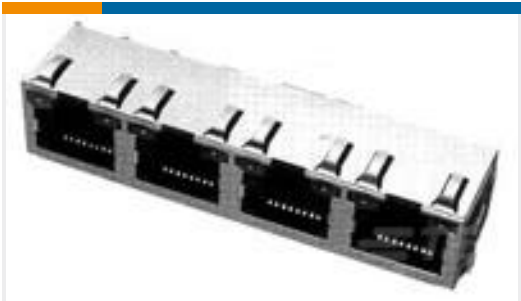
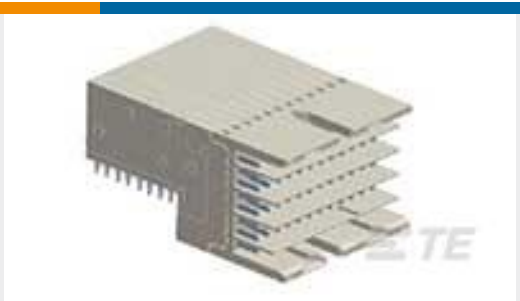
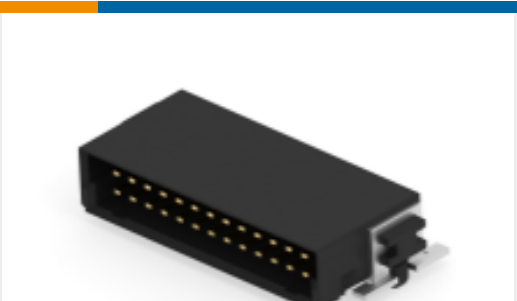
 TE Part # 2042162-1 Right Angle Male Connector	 TE Part # 2042088-1 Vert.Male, Telcordia L2	 TE Part # 2170890-1 SLIM UHD, VERTICAL MALE	 TE Part # 1551012-1 Vert.Male, Telcordia L3
 TE Part # 1551013-1 Vert.Male, Telcordia post a1	 TE Part # 1551099-1 Vert.Male, Telcordia Pre-post 1x	 TE Part # 2042139-1 RA Male Connector, Telcordia L3	

Also in the Series | Z-PACK Slim UHD

 Hard Metric Backplane Connectors(2)	 High Speed Backplane Connectors(14)
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Customers Also Bought



 TE Part #2170030-1 SFP+ 1x4 w/ Ultra Low Profile LP	 TE Part #5406552-1 INV MJ,1X4,PNL GRD, LED (G/Y)	 TE Part #2042162-1 Right Angle Male Connector	 TE Part #5-1393788-7 V23079D1003B301
 TE Part #1551576-5 Shield Finger, 3.4mm	 TE Part #1367147-3 SFP COVER, UNPL, NO LOGO	 TE Part #6-1393127-2 PRD-11DY0-24=PRD-	 TE Part #154764-E SMCB 26 M AB VV 7-03 CL * 0007 137 E004
 TE Part #1551012-1 Vert.Male, Telcordia L3	 TE Part #1551099-1 Vert.Male, Telcordia Pre-post 1x		

Documents

Product Drawings
Female Connector Telcordia

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1982738-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1982738-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1982738-1_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