



Z-PACK | Z-PACK 2mm HM

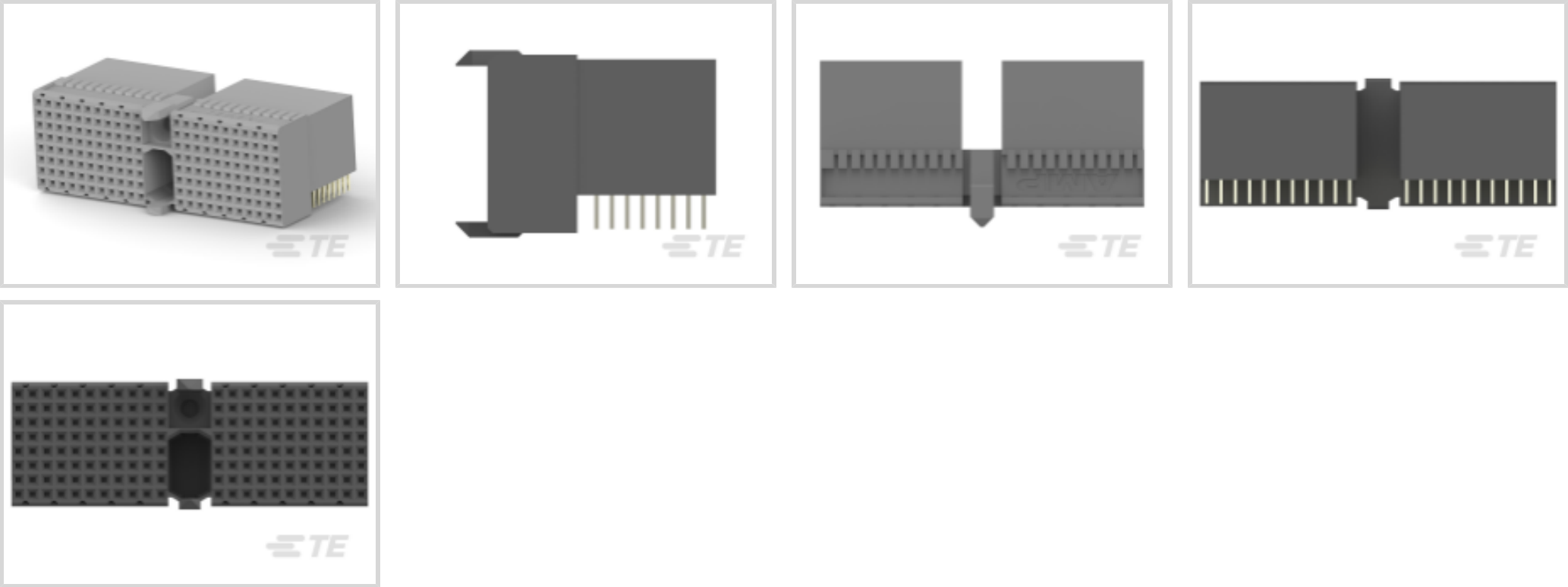
TE Internal #: 5646442-1

Hard Metric Backplane PCB Mount Receptacle, ≤1 Gb/s, 25
Column, 8 Row, Mezzanine, 176 Position, 2 mm [.078 in] Centerline,
Right Angle, Z-PACK 2mm HM

[View on TE.com >](#)

Connectors > PCB Connectors > Backplane Connectors > Hard Metric Backplane Connectors >

HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



PCB Connector Type: **PCB Mount Receptacle**

Data Rate: **≤1 Gb/s**

Number of Columns: **25**

Number of Rows: **8**

Backplane Architecture: **Mezzanine**

[All HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm \(48\)](#)

Features

Product Type Features

Connector & Contact Terminates To	Printed Circuit Board
Backplane Interface Type	2mm HM
Connector System	Board-to-Board
PCB Connector Type	PCB Mount Receptacle
Sealable	No

Configuration Features

Rows Loaded	A, B, C, D, E, F, G, H
Number of Signal Positions	176
Number of Columns	25
Number of Rows	8
Backplane Architecture	Mezzanine
Number of Positions	176



PCB Mount Orientation	Right Angle
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Signal Characteristics

Crosstalk Version	Standard
Data Rate	≤1 Gb/s

Body Features

Primary Product Color	Gray
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Contact Features

Contact Underplating Material	Nickel
Contact Base Material	Phosphor Bronze
CompactPCI Designation	None
PCB Contact Termination Area Plating Material	Tin
Feedthrough Post Length	3.3 mm
Contact Type	Socket
Contact Mating Area Plating Material	Performance Based
Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
Contact Current Rating (Max)	1.5 A

Termination Features

Termination Method to PCB	Through Hole - Press-Fit
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Mechanical Attachment

Connector Mounting Type	Board Mount
Mating Alignment Type	Multi-Purpose Center

Housing Features

Housing Material	Polyester GF
Centerline (Pitch)	2 mm[.078 in]

Dimensions

Backplane Module Length	48 mm
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Usage Conditions

Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
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Operation/Application

Shielded	No
Circuit Application	Signal



Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	10
Packaging Method	Box

Product Compliance

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

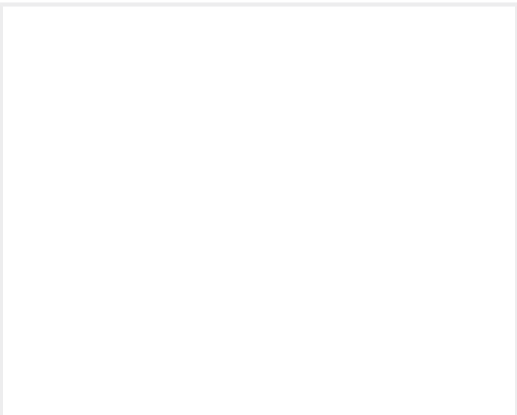
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not applicable for solder process capability

Product Compliance Disclaimer

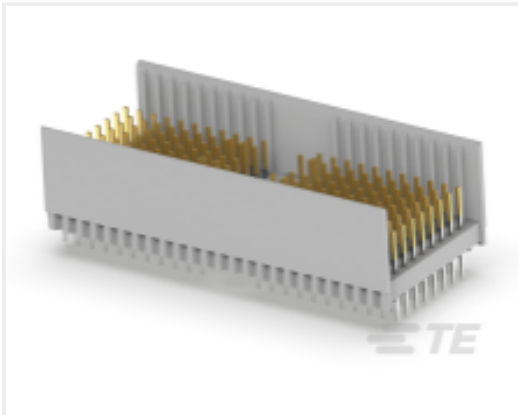
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

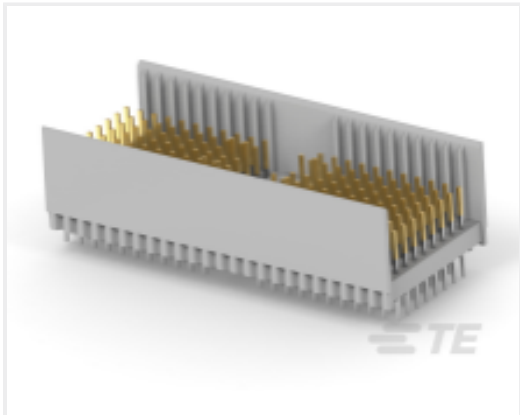




TE Part # 6645281-1
2MM H.M. TYPE "D" PIN ASSY.



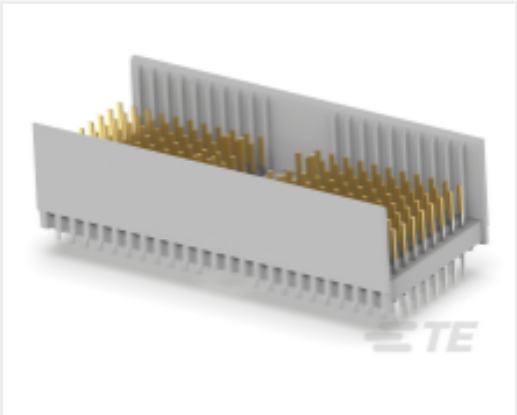
TE Part # 6645307-4
2MM H.M. 8 ROW TYPE "D" PIN AS



TE Part # 6645307-9
2MM H.M. 8 ROW TYPE "D" PIN AS

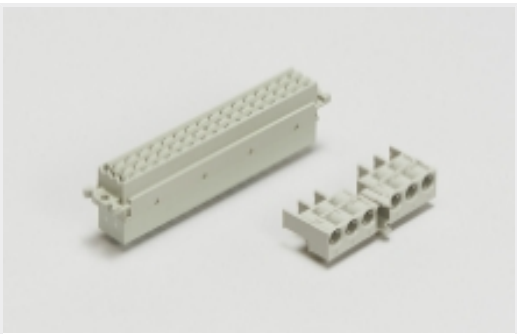


TE Part # CAT-472-Z12
Hard Metric Male Connector:
Traditional Backplane, Mezzanine,
2mm

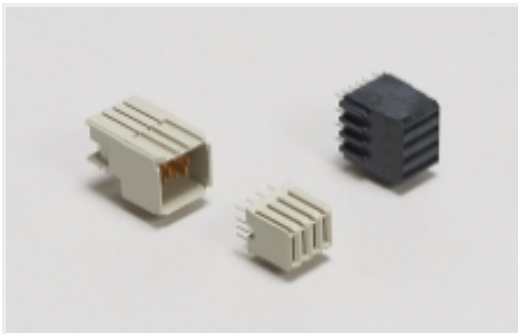


TE Part # 6645307-1
2MM H.M. 8 ROW TYPE "D" PIN AS

Also in the Series | Z-PACK 2mm HM



Backplane Connector Housings(4)



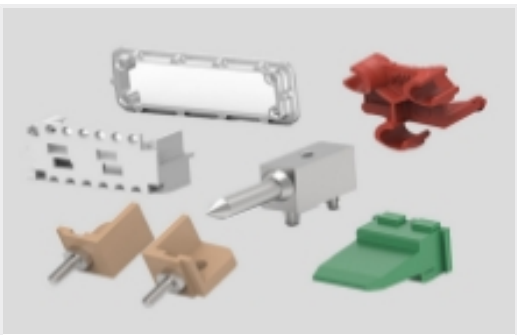
Backplane Power Connectors(1)



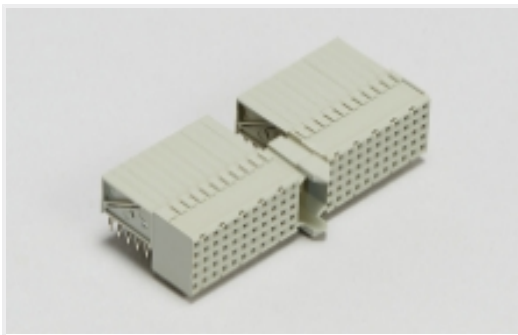
Connector Caps & Covers(62)



Connector Contacts(2)



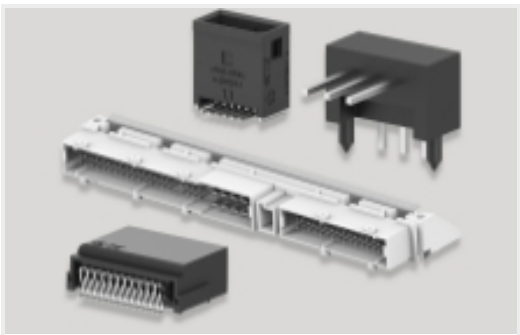
Connector Hardware(91)



Hard Metric Backplane Connectors
(266)



Insertion & Extraction Tools(2)



PCB Headers & Receptacles(46)



Rectangular Power Connectors(46)

Customers Also Bought



TE Part #1241050-4
2x4P MOD II BREAK AWAY HDR,SMD, BLISTER

TE Part #5748612-1
25 RCPT SP/FMS BRDLK

TE Part #5100143-1
2MM H.M. TYPE "A" PIN ASSY.

TE Part #3-1761465-4
pci expres ra assy 5.8mm thru hole 3.1 mm

TE Part #3-1827233-6
.5FHP05H,440,B,GIG,08/Sn,HT,NS

TE Part #2007263-1
SFP+ 1x2 Cage Assembly

TE Part #CAT-472-Z12553
HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm

TE Part #2227023-1
CAGE ASSY PRESS FIT, SFP

TE Part #6-103361-4
16 MODII HDR SRRA SHRD LF

Documents

Product Drawings
2MM HM,ASY,T-D,REC,TWIST TULIP
English

CAD Files
Customer View Model
ENG_CVM_CVM_5646442-1_O.2d_dxf.zip
English
3D PDF
3D
Customer View Model
ENG_CVM_CVM_5646442-1_O.3d_igs.zip
English
Customer View Model
ENG_CVM_CVM_5646442-1_O.3d_stp.zip
English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications



Application Specification

English