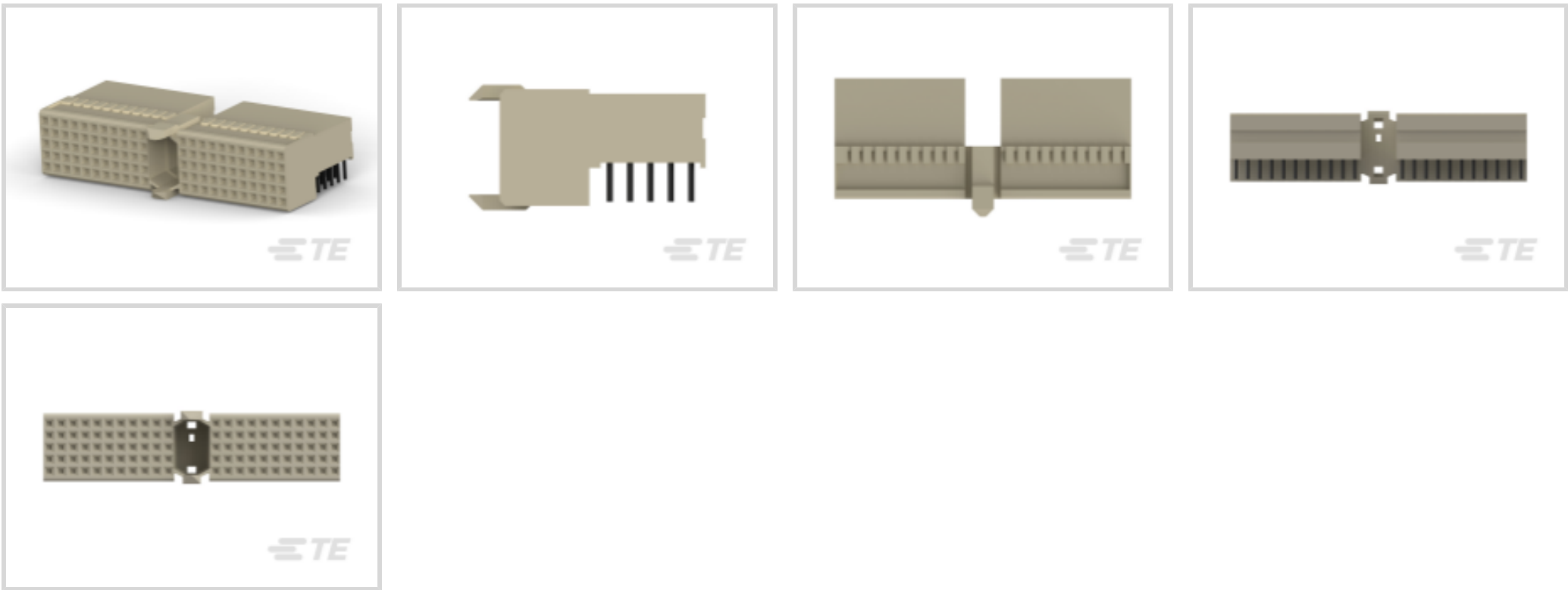




Connectors > PCB Connectors > Backplane Connectors > Hard Metric Backplane Connectors >

HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



PCB Connector Assembly Type: **PCB Mount Receptacle**

Data Rate: **≤1 Gb/s**

Number of Columns: **22**

Number of Rows: **5**

Backplane Architecture: **Mezzanine**

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

Features

Industry Standards

UL Flammability Rating	UL 94V-0
------------------------	----------

Termination Features

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

Mechanical Attachment

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

Dimensions

Backplane Module Length	50 mm
-------------------------	-------

Operation/Application

Shielded	No
Circuit Application	Power & Signal



Contact Features

Contact Underplating Material	Nickel
Contact Mating Area Length	3.7 mm
Contact Base Material	Phosphor Bronze
CompactPCI Designation	None
PCB Contact Termination Area Plating Material	Tin-Lead
Feedthrough Post Length	3.3 mm
Contact Type	Socket
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Current Rating (Max)	1.5 A

Packaging Features

Packaging Quantity	11
Packaging Method	Tube

Housing Features

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

Configuration Features

Rows Loaded	B, C, D, E, A
Number of Columns	22
Number of Rows	5
Backplane Architecture	Mezzanine
Number of Positions	110
PCB Mount Orientation	Right Angle

Signal Characteristics

Crosstalk Version	Standard
Data Rate	≤1 Gb/s

Product Type Features

Connector & Contact Terminates To	Printed Circuit Board
Backplane Interface Type	2mm HM
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle



Sealable	No
----------	----

Body Features

Primary Product Color	Gray
-----------------------	------

Usage Conditions

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

Other

EU RoHS Compliance	Not Compliant
EU ELV Compliance	Compliant with Exemptions

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	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) SVHC > Threshold: Pb (13% in Component Part) <b>Article Safe Usage Statements:</b> Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
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>

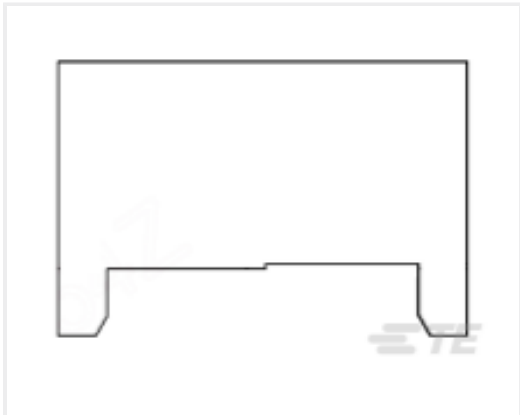
Compatible Parts



TE Part # 646478-2  
2MM H.M., "A" SHROUD, 3.9MM



TE Part # 646478-5  
2MM H.M., "A" SHROUD, 4.5MM



TE Part # 122559-1  
SEATING TOOL 2MM HM 7 ROW



TE Part # 646478-6  
2MM H.M., "A" SHROUD, 4.7MM



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



TE Part # 646478-7  
2MM H.M., "A" SHROUD, 4.9MM

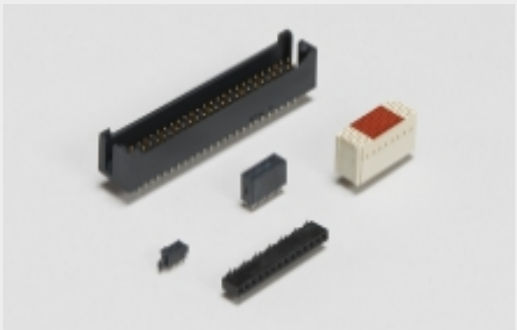


TE Part # 646478-1  
2MM H.M., "A" SHROUD, 3MM




TE Part # 646478-4  
2MM H.M., "A" SHROUD, 4.3MM

Also in the Series | Z-PACK 2mm HM



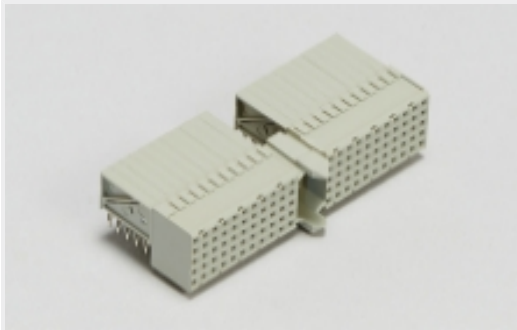
Board-to-Board Headers & Receptacles(46)



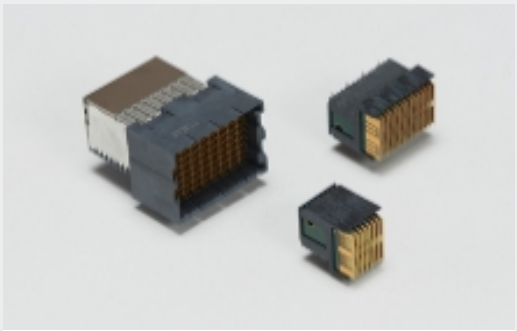
Connector Contacts(2)




Connector Hardware(91)



Hard Metric Backplane Connectors (267)

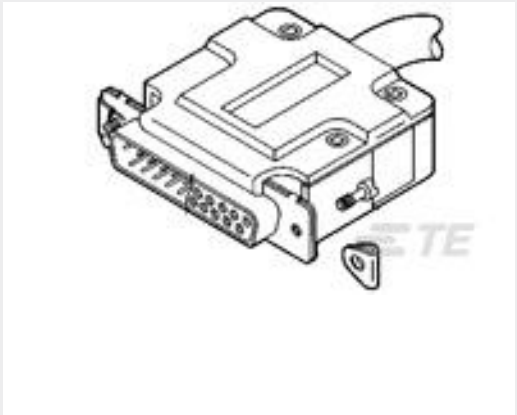


High Speed Backplane Connectors(1)

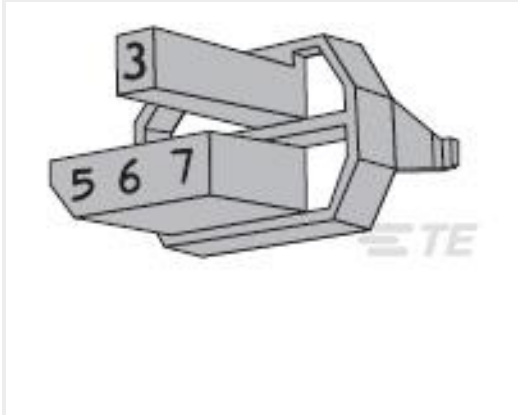


Power Contacts(2)

Customers Also Bought



TE Part #5207908-4  
STRAIN REL W/SCREW RET KIT



TE Part #3-100526-2  
Z-PACK F.CODING KEY



TE Part #204504-1  
RECEPT ASSY,SZ 3,AMPLIMITE



TE Part #103308-2  
014 LOPRO HDR SP 15DP






TE Part #1903977-1  
SLIM UPM 4POS. R/A HDR ASSEMBL



TE Part #1-1617543-2  
JMGSCDD-9MW=M39016/43-051M




TE Part #2102847-1  
DC, 7Row, Center, MULTIGIG RT 2R



TE Part #324051  
TERMINAL,T-N R 4 5/16



TE Part #500024-1  
SPIRAP 1/4" PTFE, NAT, 50 FT



TE Part #Y72539-13-35PNV004  
HERM RECP

Documents

Product Drawings  
Z-PACK/A F-HDR.110P

English

CAD Files  
3D PDF

English

Customer View Model  
ENG\_CVM\_100147-1\_N.2d\_dxf.zip

English

Customer View Model  
ENG\_CVM\_100147-1\_N.3d\_igs.zip

English

Customer View Model  
ENG\_CVM\_100147-1\_N.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

Instruction Sheets  
INSERTION TOOL FOR Z-PACK 2mm HM CONN.

Japanese

Instruction Sheet (non U.S.)

Japanese



100147-1

Hard Metric Backplane PCB Mount Receptacle, ≤1 Gb/s, 22 Column, 5 Row,  
Mezzanine, 110 Position, 2 mm [.078 in] Centerline, Right Angle, Z-PACK 2mm HM

