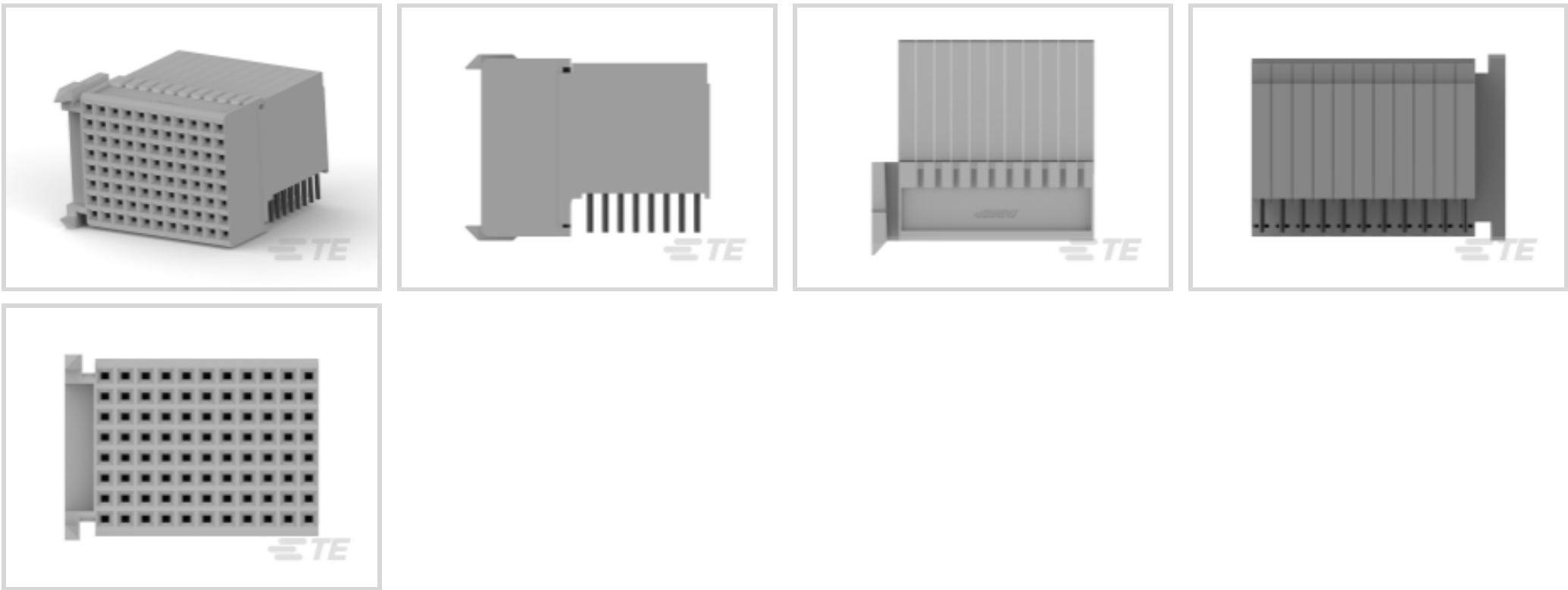




Connectors > PCB Connectors > Backplane Connectors > Hard Metric Backplane Connectors >

HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



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

Data Rate: **≤1 Gb/s**

Number of Columns: **11**

Number of Rows: **8**

Backplane Architecture: **Mezzanine**

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

Features

Industry Standards

UL Flammability Rating	UL 94V-0
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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

Dimensions

Backplane Module Length	25 mm
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Operation/Application

Shielded	No
Circuit Application	Signal



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

Packaging Features

Packaging Quantity	20
Packaging Method	Box

Housing Features

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

Configuration Features

Rows Loaded	B, C, D, E, A, F, G, H
Number of Signal Positions	88
Number of Columns	11
Number of Rows	8
Backplane Architecture	Mezzanine
Number of Positions	88
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
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Body Features

Primary Product Color	Gray
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Usage Conditions

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

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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 # 2170310-2  
2MM HM,ASY,T-F,PIN,088 POS

TE Part # 3-5646457-0  
2MM HM,ASY,T-F,PIN,088 POS

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

Also in the Series

Z-PACK 2mm HM

Backplane Connector Housings(4)

Backplane Power Connectors(1)

Connector Caps & Covers(62)

Connector Contacts(2)

Insertion & Extraction Tools(2)

PCB Headers & Receptacles(46)

Power Contacts(2)

Customers Also Bought

TE Part #1-1827876-6  
DYNAMIC 1200D HDR ASSY H 12PX  
BLACK GOLD

TE Part #5646346-1  
2MM HM,ASY,T-D,HDR,8R,176P,AP

TE Part #5100161-1  
Z-PACK/C RAF 55P

TE Part #53440-1  
ELECTRO-TAP, 18-14 AWG RUN&TAP

TE Part #5223985-5  
UPM KEYED GUIDE PIN #6-32

TE Part #CAT-D38999-DTS24M  
D38999: Straight Plug, 23-35 Insert

TE Part #YDTS20W23-35SBV001  
RECP ASSY

TE Part #1469734-1  
HM-ZD 2PR HDR 40P SEQ, LF



Documents

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

CAD Files  
3D PDF  
English

Customer View Model  
ENG\_CVM\_5646446-1\_A.2d\_dxf.zip  
English

Customer View Model  
ENG\_CVM\_5646446-1\_A.3d\_igs.zip  
English

Customer View Model  
ENG\_CVM\_5646446-1\_A.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