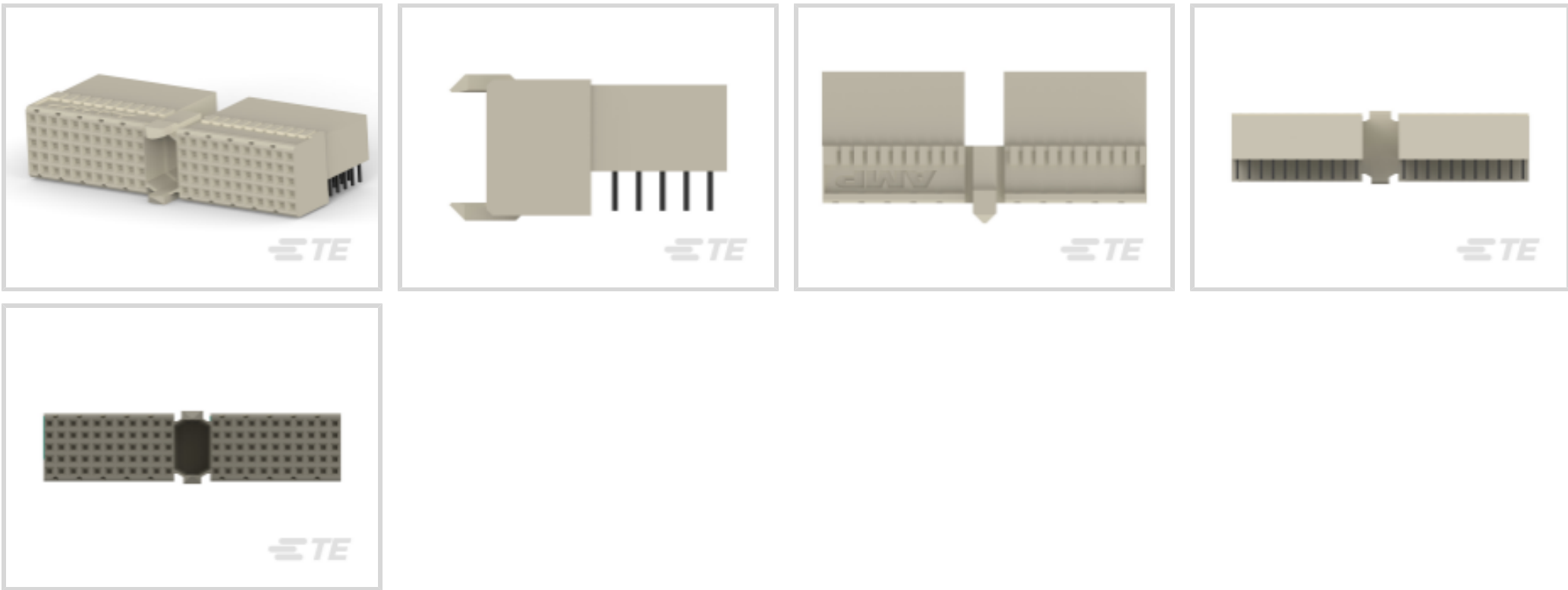




Connectors > PCB Connectors > Backplane Connectors > Hard Metric Backplane Connectors >

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

Product Type Features

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

Configuration Features

|                        |               |
|------------------------|---------------|
| Rows Loaded            | A, B, C, D, E |
| 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  |

Body Features

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

Contact Features

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

Mechanical Attachment

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

Housing Features

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

Dimensions

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

Usage Conditions

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

Operation/Application

|                     |                |
|---------------------|----------------|
| Shielded            | No             |
| Circuit Application | Power & Signal |

Industry Standards

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

Packaging Features

|  |  |
|--|--|
|  |  |
|--|--|



|                    |      |
|--------------------|------|
| Packaging Quantity | 11   |
| Packaging Method   | Tube |

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)<br>Candidate List Declared Against: JUNE 2024 (241)<br>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

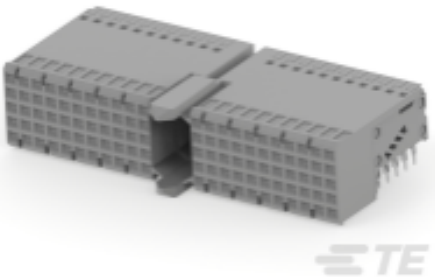
TE Part # CAT-472-Z1  
Hard Metric Backplane Male  
Connector: Right Angle, Coplanar, 2mm

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

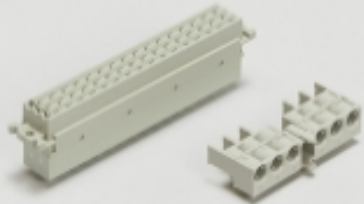
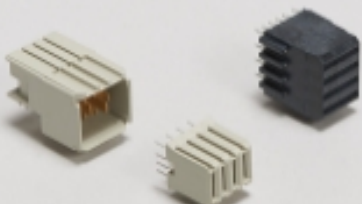
TE Part # 106137-2  
Z-PACK/A SHRD.110P

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



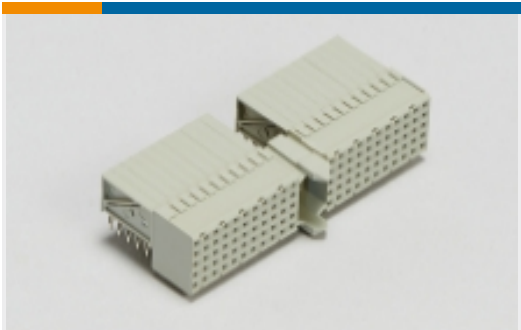
|                                                                                                                                        |                                                               |                                                               |                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
|  <p>TE Part # 2392557-1<br/>Z-PACK/A RAF 110P EON</p> | <p>TE Part # 5106726-1<br/>Z-PACK/A M-HDR 110P</p>            | <p>TE Part # 5352106-1<br/>Z-PACK/A RAMH.110P.</p>            | <p>TE Part # 2170292-2<br/>2MM H.M. TYPE "A" PIN ASSY.</p>    |
| <p>TE Part # 2170294-2<br/>Z-PACK/A RAF 110P</p>                                                                                       | <p>TE Part # 2170312-2<br/>2MM HM TYPE A RECPT ASSY</p>       | <p>TE Part # 2170313-2<br/>Z-PACK A HEADER 110P</p>           | <p>TE Part # 2341384-1<br/>2MM H.M. TYPE "A" PIN ASSY.</p>    |
| <p>TE Part # 5352721-1<br/>Z-PACK/A M-HDR.110P</p>                                                                                     | <p>TE Part # 6645301-1<br/>2MM H.M. TYPE "A" PIN ASSEMBLY</p> | <p>TE Part # 6645302-1<br/>2MM H.M. TYPE "A" PIN ASSEMBLY</p> | <p>TE Part # 6645303-1<br/>2MM H.M. TYPE "A" PIN ASSEMBLY</p> |
| <p>TE Part # 6645436-1<br/>2mm HM Type A MALE HDR 154P</p>                                                                             | <p>TE Part # 6645496-1<br/>Z-PACK HM 2MM HDR TYPE A ASSY,</p> | <p>TE Part # 6645496-9<br/>Z-PACK HM 2MM HDR TYPE A ASSY,</p> |                                                               |

Also in the Series | Z-PACK 2mm HM

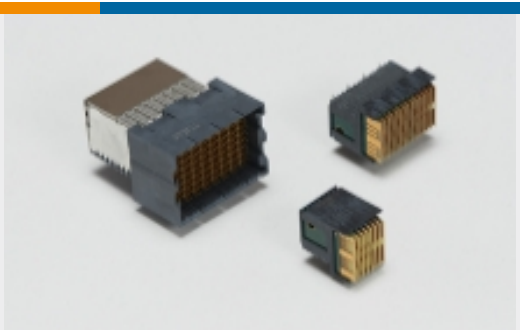
|                                                                                                                            |                                                                                                                          |                                                                                                                              |                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|  <p>Backplane Connector Housings(4)</p> |  <p>Backplane Power Connectors(6)</p> |  <p>Connector Caps &amp; Covers(62)</p> |  <p>Connector Contacts(2)</p> |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|



Connector Hardware(97)



Hard Metric Backplane Connectors (267)



High Speed Backplane Connectors(1)

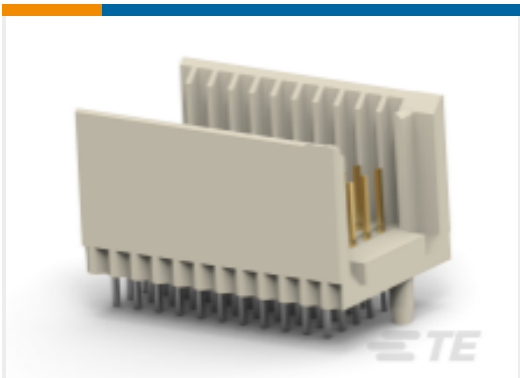


Insertion & Extraction Tools(2)



Rectangular Power Connectors(87)

Customers Also Bought



TE Part #5106164-1  
Hard Metric Male Connector:  
Traditional Backplane, Mezzanine,  
2mm



TE Part #6469081-1  
HMZD 3PR, RECEPTACLE ASSEMBLY



TE Part #1-2176091-5  
RP 2A 0.25W 80R6 0.1% 25PPM 1K RL



TE Part #5353831-8  
.6FHP07H,100,S,GIG,08/Sn,TR,NSYes



TE Part #5353190-8  
.6FHR04H,100,S,GIG,08/Sn,TR,NSYes



TE Part #3-2176368-2  
RQ 0603 105K 0.1% 10PPM 1K RL

Documents

Product Drawings  
Z-PACK/A RAF 110P

English

CAD Files  
Customer View Model  
ENG\_CVM\_CVM\_5100147-1\_B.2d\_dxf.zip

English

3D PDF



3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5100147-1\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5100147-1\\_B.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