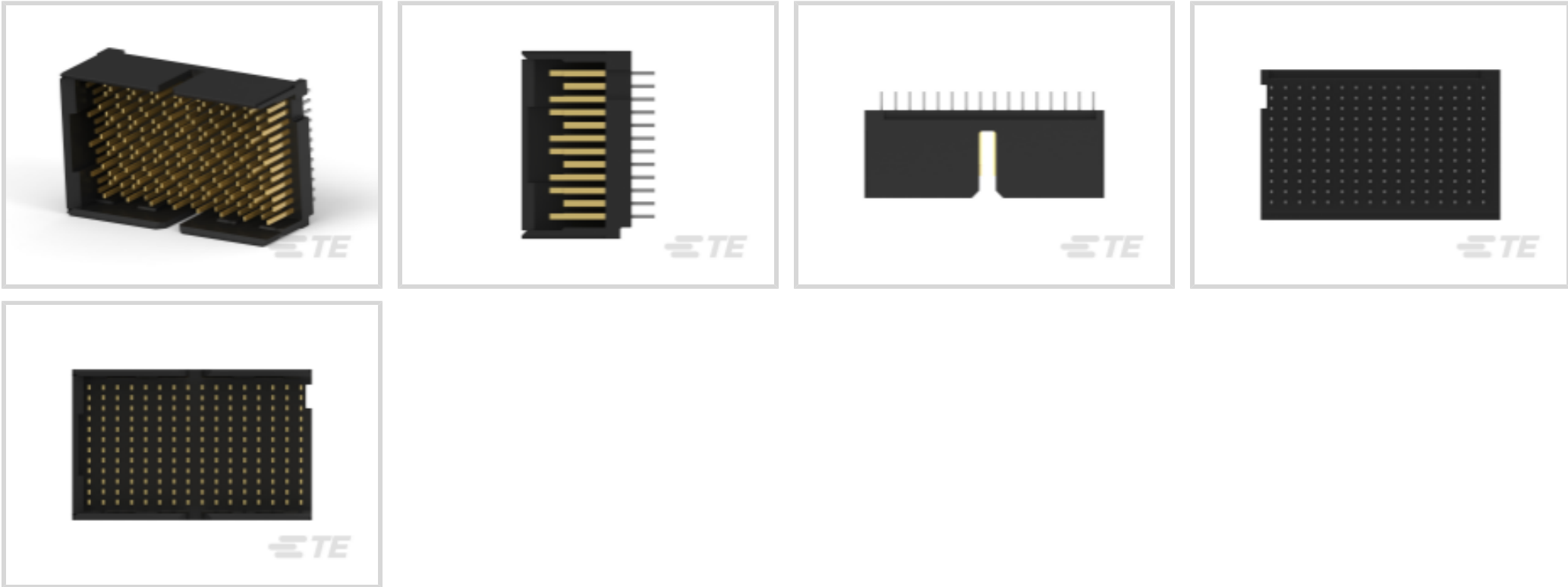




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Number of Positions: 192  
Row-to-Row Spacing: 1.4 mm [ .055 in ]  
Mating Alignment: With  
Mating Alignment Type: Guide Slot  
Number of Rows: 12

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Backplane Module Type             | Right                 |
| Signal Arrangement                | Differential          |
| Connector System                  | Board-to-Board        |
| Connector & Contact Terminates To | Printed Circuit Board |
| PCB Connector Assembly Type       | PCB Mount Header      |
| Shroud Style                      | Partially Shrouded    |

Configuration Features

|                            |                       |
|----------------------------|-----------------------|
| Pairs per Column           | 4                     |
| Number of Pairs            | 64                    |
| Stackable                  | No                    |
| Number of Signal Positions | 128                   |
| Backplane Architecture     | Traditional Backplane |
| Number of Positions        | 192                   |
| Number of Rows             | 12                    |



|                       |          |
|-----------------------|----------|
| Number of Columns     | 16       |
| PCB Mount Orientation | Vertical |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Impedance         | 100 Ω   |
| Operating Voltage | 250 VAC |

Signal Characteristics

|                                         |         |
|-----------------------------------------|---------|
| Differential Impedance                  | 100 Ω   |
| Number of Differential Pairs per Column | 4       |
| Data Rate                               | 10 Gb/s |

Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

|                                                         |                   |
|---------------------------------------------------------|-------------------|
| Contact Mating Area Length                              | 6 mm[.236 in]     |
| PCB Contact Termination Area Plating Material Thickness | .5 μm[20 μin]     |
| Contact Type                                            | Pin               |
| Contact Mating Area Plating Material Thickness          | .76 μm[29.92 μin] |
| Contact Mating Area Plating Material                    | Gold              |
| PCB Contact Termination Area Plating Material Finish    | Matte             |
| Contact Shape & Form                                    | Rectangular       |
| PCB Contact Termination Area Plating Material           | Tin               |
| Contact Base Material                                   | Phosphor Bronze   |
| Contact Current Rating (Max)                            | .5 A              |

Termination Features

|                                |                          |
|--------------------------------|--------------------------|
| Termination Post & Tail Length | 2.5 mm[.098 in]          |
| Termination Method to PCB      | Through Hole - Press-Fit |

Mechanical Attachment

|                          |                       |
|--------------------------|-----------------------|
| Guide Hardware           | Without               |
| Mating Retention         | Without               |
| PCB Mount Alignment      | Without               |
| PCB Mount Retention      | With                  |
| PCB Mount Retention Type | Action/Compliant Tail |
| Mating Alignment         | With                  |



|                         |             |
|-------------------------|-------------|
| Mating Alignment Type   | Guide Slot  |
| Connector Mounting Type | Board Mount |

Housing Features

|                          |                              |
|--------------------------|------------------------------|
| Number of Shrouded Sides | 3                            |
| End Wall Location        | Right                        |
| Housing Material         | LCP (Liquid Crystal Polymer) |
| Centerline (Pitch)       | 1.9 mm[.075 in]              |

Dimensions

|                    |                 |
|--------------------|-----------------|
| Connector Length   | 11.8 mm         |
| Connector Height   | 11.8 mm         |
| Connector Width    | 20.2 mm         |
| PCB Hole Diameter  | .47 mm          |
| Row-to-Row Spacing | 1.4 mm[.055 in] |

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -65 – 90 °C[-85 – 194 °F] |
|-----------------------------|---------------------------|

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

|                                             |           |
|---------------------------------------------|-----------|
| Compatible With Agency/Standards Products   | UL        |
| Compatible With Approved Standards Products | UL E28476 |
| UL Flammability Rating                      | UL 94V-0  |

Packaging Features

|                  |                  |
|------------------|------------------|
| Packaging Method | Box & Tube, 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) |



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

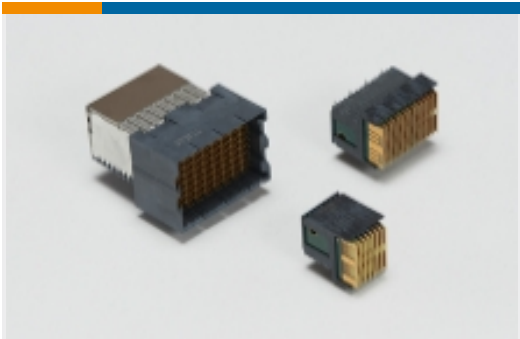
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 1934225-1  
Tin Man Recept Assy 4 Pair 16 Column

Also in the Series | Z-PACK TinMan



High Speed Backplane Connectors(65)

Customers Also Bought



TE Part #2-1658526-9  
609-1630LF=FSKT IDC S 16 30AU

TE Part #1-1658526-5  
609-2630LF FEM SOCKET,LEAD FREE

TE Part #1879213-7  
CPF 0402 30R1 0.1% 25PPM 1K RL

TE Part #4-1676481-3  
CPF 0603 330R 0.1% 25PPM 1K RL

TE Part #1676193-2  
RN 0805 150K 0.1% 10PPM 1KRL

TE Part #3-2176088-6  
RP 1J 0.166W 1K82 0.1% 25PPM 1K RL

TE Part #2176372-2  
RQ 0603 51K1 0.1% 10PPM 5K RL

TE Part #3-647166-2  
2P MTA100 HDR ASSY,SM,FL,LF

TE Part #7-2176280-4  
CPF 0402 301K 0.1% 25ppm 5K RL

TE Part #9-1393644-4  
V42254B1200C963=PC612 MESSERLE

Documents

Product Drawings

Tin Man Header Assy 4x16 Right

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1934318-1\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1934318-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1934318-1\_A.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages



High Speed Backplane Connectors catalog - Z-PACK TinMan High Speed, High Density Backplane Connector

English

Z-PACK TinMan High Speed High Density Backplane Connector Catalog 5-1773447-9

English

Product Specifications

Application Specification

English