

**IMPACT**

TE Internal #: 2007721-1

High Speed Backplane Connectors, 192 Position, Mating Alignment, Keyed Mating Alignment Type, 12 Row, 16 Column, PCB Mount Receptacle, IMPACT

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

Connector System: **Board-to-Board**Number of Positions: **192**Row-to-Row Spacing: **1.35 mm [.053 in]**Mating Alignment: **With**Mating Alignment Type: **Keyed****Features****Product Type Features**

| | |
|-----------------------------------|-----------------------|
| Signal Arrangement | Differential |
| Connector System | Board-to-Board |
| PCB Connector Assembly Type | PCB Mount Receptacle |
| Shroud Style | Unshrouded |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

| | |
|----------------------------|-------------|
| Number of Ground Positions | 64 |
| Number of Pairs | 64 |
| Stackable | No |
| Number of Signal Positions | 128 |
| Number of Positions | 192 |
| Number of Rows | 12 |
| Number of Columns | 16 |
| PCB Mount Orientation | Right Angle |
| Guide Location | Left |

Electrical Characteristics

| | |
|-------------------|--------------|
| Impedance | 100 Ω |
| Operating Voltage | 30 VAC |



Signal Characteristics

| | |
|---|--------------|
| Number of Differential Pairs per Column | 4 |
| Data Rate | 20 – 25 Gb/s |

Body Features

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

Contact Features

| | |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 1.27 μm [50 μin] |
| Contact Layout | Inline |
| Contact Type | Socket |
| Contact Underplating Material Thickness | 1.27 μm [50 μin] |
| Contact Mating Area Plating Material Thickness | .762 μm [30 μin] |
| Contact Mating Area Plating Material | Gold |
| Contact Shape & Form | Dual Beam |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Base Material | Copper Alloy |
| Contact Current Rating (Max) | .75 A |

Termination Features

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|---|--------------------------|
| Termination Post & Tail Length | 1.2 mm[.047 in] |
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |

Mechanical Attachment

| | |
|--------------------------|-------------------------------|
| PCB Mount Alignment Type | Locating Posts |
| Guide Hardware | With |
| Mating Retention | Without |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Action/Compliant Tail & Screw |
| Mating Alignment | With |
| Mating Alignment Type | Keyed |
| Connector Mounting Type | Board Mount |

Housing Features

| | |
|--------------------------|-----------------------------------|
| Number of Shrouded Sides | 0 |
| Housing Material | LCP - GF (Liquid Crystal Polymer) |



| | |
|--------------------|-----------------|
| Centerline (Pitch) | 1.9 mm[.075 in] |
|--------------------|-----------------|

Dimensions

| | |
|------------------|-----------------|
| Connector Length | 38 mm[1.496 in] |
|------------------|-----------------|

| | |
|------------------|------------------|
| Connector Height | 17.3 mm[.681 in] |
|------------------|------------------|

| | |
|-----------------|------------------|
| Connector Width | 28.2 mm[1.11 in] |
|-----------------|------------------|

| | |
|-----------------------------|------|
| PCB Thickness (Recommended) | 1 mm |
|-----------------------------|------|

| | |
|-------------------|-----------------|
| PCB Hole Diameter | .39 mm[.015 in] |
|-------------------|-----------------|

| | |
|--------------------|------------------|
| Row-to-Row Spacing | 1.35 mm[.053 in] |
|--------------------|------------------|

Usage Conditions

| | |
|-----------------------------|---------------------------|
| Operating Temperature Range | -55 – 85 °C[-67 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

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

Industry Standards

| | |
|--------------------|--------------------------|
| Approved Standards | CSA Certified, UL E28476 |
|--------------------|--------------------------|

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

Packaging Features

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|------------------|------------------|
| 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 2023 (235) Candidate List Declared Against: JAN 2023 (233) Does not contain REACH SVHC |
|--|--|

| | |
|-----------------|---|
| Halogen Content | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
|-----------------|---|

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

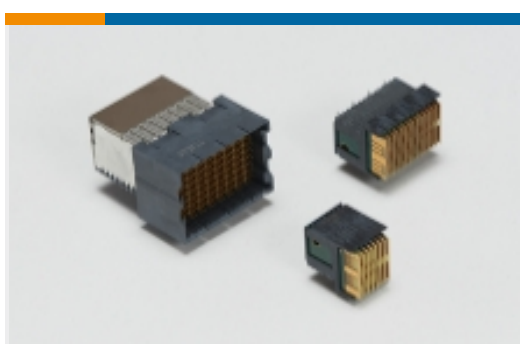


TE Part # 2007836-1
IMP100S,H,V4P16C,UG,OEWS39,4,5



TE Part # 2018531-1
TOOL, SEAT 4 PR 16 COL,BP CONN

Also in the Series | IMPACT



High Speed Backplane Connectors
(1768)

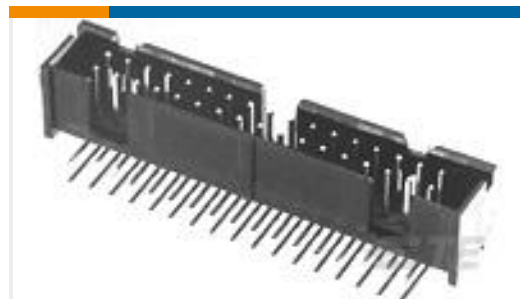
Customers Also Bought



TE Part #1-208657-0
CPC RECEPT ASSEMBLY SIZE 11-8



TE Part #2-1879463-2
RL73H 2E R75 1% 5K RL



TE Part #5103311-5
A/L LOW PRO HDR 20P RA BLACK



TE Part #5-534978-3
20 MODII 2PC HDR DR W/HLDWN, ROHS



TE Part #284514-3
3 POS TERMI-BLOK HDR DIR. POL.



TE Part #GA10K4A1D
DISCRETE 10K OHMS, +/-1.0C FROM
0C TO 70C



TE Part #6-102692-6
20 MODII 2PC HDR DR SHRD, ROHS



TE Part #4-1393159-9
20C330=SPRING,HOLD-DOWN,RK,.03

Documents

Product Drawings

[IMP100S,R,RA4P16C,LG,39](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_2007721-1_A.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2007721-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2007721-1_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[7-1773458-1_IMPACT_BACKPLANE_CONNECTOR_SYSTEM_CATALOG](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD_2007721-1_052320181356_dmtec](#)

English

[MD_2007721-1_052320181356_dmtec](#)

English

Agency Approvals

[Agency Approval Document](#)

English