



IMPACT

TE Internal #: 2007836-2

192 Position High Speed Backplane Connector, 12 Row, 16 Column, PCB Mount Header, Vertical, Partially Shrouded, 1.9 mm [.075 in] Centerline, IMPACT

[View on TE.com >](#)

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



Number of Positions: **192**

Row-to-Row Spacing: **1.35 mm [.053 in]**

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Number of Rows: **12**

Features

Product Type Features

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

Configuration Features

Number of Pairs	64
Number of Ground Positions	64
Number of Signal Positions	128
Stackable	No
Number of Positions	192
Number of Rows	12
Number of Columns	16
PCB Mount Orientation	Vertical
Guide Location	Unguided

Electrical Characteristics

Operating Voltage	30 VDC
Impedance	100 Ω



Signal Characteristics

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

Body Features

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

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 μm [50 μin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	.76 μm [29.92 μin]
PCB Contact Termination Area Plating Material Thickness	.76 – 1.52 μm [30 – 60 μin]
Contact Shape & Form	Dual Beam
Contact Layout	Inline
Contact Mating Area Plating Material	Gold (Au)
Contact Mating Area Length	4.9 mm[.193 in]
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Type	Pin
Contact Current Rating (Max)	.75 A

Termination Features

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	1.4 mm[.055 in]

Mechanical Attachment

Guide Hardware	Without
PCB Mount Retention	With
Mating Retention	Without
PCB Mount Retention Type	Action/Compliant Tail
Mating Alignment	With
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount

Housing Features

Number of Shrouded Sides	2
--------------------------	---



End Wall Location	Open
-------------------	------

Housing Material	LCP GF
------------------	--------

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

Dimensions

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

Connector Width	20.8 mm [.819 in]
-----------------	-------------------

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

Connector Height	11.95 mm [.47 in]
------------------	-------------------

Connector Length	30.3 mm [1.193 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

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

Compatible With Approved Standards Products	UL E28476
---	-----------

Packaging Features

Packaging Method	Box & Tube, Package
------------------	---------------------

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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
---------------------------	--

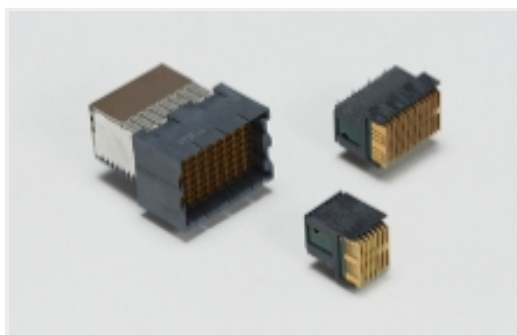
Product Compliance Disclaimer

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 # 2007723-1
IMP100S,R,RA4P16C,UG,39

Also in the Series | **IMPACT**

High Speed Backplane Connectors
(149)

Customers Also Bought



TE Part #2057411-1
IMP100S,R,RA2P16C,UG,39



TE Part #2227838-7
2X12 ZSFP+ CONNECTOR ASSEMBLY

Documents

Product Drawings

[IMP100S,H,V4P16C,UG,OEW39,4.9](#)



English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_2007836-2_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2007836-2_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2007836-2_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

Agency Approvals

Agency Approval Document

English