



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

Electrical Characteristics

Operating Voltage	250 VAC
Impedance	100 Ω

Signal Characteristics

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

Industry Standards

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

Termination Features

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

Body Features

Primary Product Color	Black
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Packaging Features

Packaging Method	Tube, Box & Tube
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Contact Features

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

Housing Features

Number of Shrouded Sides	4
End Wall Location	Dual
Housing Material	LCP (Liquid Crystal Polymer)
Centerline (Pitch)	1.9 mm[.075 in]

Product Type Features

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

Mechanical Attachment

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

Dimensions

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

Configuration Features

Number of Pairs	64
Number of Signal Positions	128
Backplane Architecture	Traditional Backplane
Stackable	No
Pairs per Column	4
Number of Positions	192
Number of Rows	12
Number of Columns	16
PCB Mount Orientation	Vertical

Usage Conditions

Operating Temperature Range	-65 – 90 °C[-85 – 194 °F]
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Operation/Application

Circuit Application	Signal
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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	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

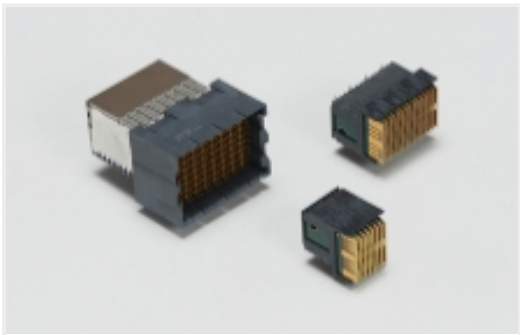
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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(68)

Customers Also Bought



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

TE Part #2-1761603-9
IDC LOW PRO HDR 26P VERT BLUE

TE Part #2-1761607-7
IDC LOW PRO HDR 20P RA LG LAT

TE Part #215307-4
2X4P HV100 REC CON. TE, 7.0MM

TE Part #6-1879337-6
CPF 0603 11K8 1% 50PPM 1K RL

TE Part #1934222-1
Tin Man Recpt Assy 4Pair8Column

TE Part #188753-4
31P.IEC-F MALE CONN

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

TE Part #L9000247-01
MCX Jack 50 Ohm .062 PCB Edge Mount

TE Part #3-647502-2
02P MTA100 HDR ASSY,SM,FL,SN

Documents

Product Drawings

Tin Man Header Assy 4x16 Double

English

CAD Files

Customer View Model

ENG_CVM_1934316-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_1934316-1_B.3d_stp.zip

English

Customer View Model

ENG_CVM_1934316-1_B.2d_dxf.zip

English

3D PDF

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