

2287841-1 ✓ ACTIVE

STRADA | STRADA Whisper 3.9mm

TE Internal #: 2287841-1

High Speed Backplane Connectors, Board-to-Board, 128 Position,
Mating Alignment, Keyed Mating Alignment Type, 8 Row, 8
Column, STRADA Whisper 3.9mm

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[Connectors](#) > [PCB Connectors](#) > [Backplane Connectors](#) > [High Speed Connectors](#)



Connector System: **Board-to-Board**

Number of Positions: **128**

Row-to-Row Spacing: **2.5 mm [.098 in]**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Features

Product Type Features

Backplane Module Type	Center
Signal Arrangement	Differential
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Header
Shroud Style	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Pairs per Column	8
Number of Ground Positions	72
Mating & Unmating Configuration	Make First / Break Last
Number of Pairs	64
Stackable	No
Number of Signal Positions	128
Number of Positions	128
Number of Rows	8
Number of Columns	8
Backplane Architecture	Orthogonal



PCB Mount Orientation	Right Angle
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Electrical Characteristics

UL Voltage Rating	80 VAC
Impedance	85 Ω
Operating Voltage	80 VAC

Signal Characteristics

Differential Impedance	85 Ω
Number of Differential Pairs per Column	12
Data Rate	56 Gb/s

Body Features

Shield Material	Copper Alloy
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Contact Features

Contact Mating Area Length	4.38 mm [.172 in]
Contact Type	Pin
Contact Mating Area Plating Material	Gold Flash
Contact Shape & Form	Dual Beam
Contact Underplating Material	Palladium Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	.4 A

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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Mechanical Attachment

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

Housing Features

Number of Shrouded Sides	4
Housing Material	LCP (Liquid Crystal Polymer)



Housing Color	Black
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Centerline (Pitch)	3.9 mm[.154 in]
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Dimensions

PCB Thickness (Recommended)	1 mm[.039 in]
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PCB Hole Diameter	1 mm[.039 in]
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Row-to-Row Spacing	2.5 mm[.098 in]
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Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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Operation/Application

Durability Rating	200 Cycles
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Circuit Application	Signal
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Industry Standards

UL Rating	Recognized
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UL File Number	E28476
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Agency/Standard	UL
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Packaging Features

Packaging Method	Tube
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUN 2016 (169) SVHC > Threshold: Not Yet Reviewed
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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
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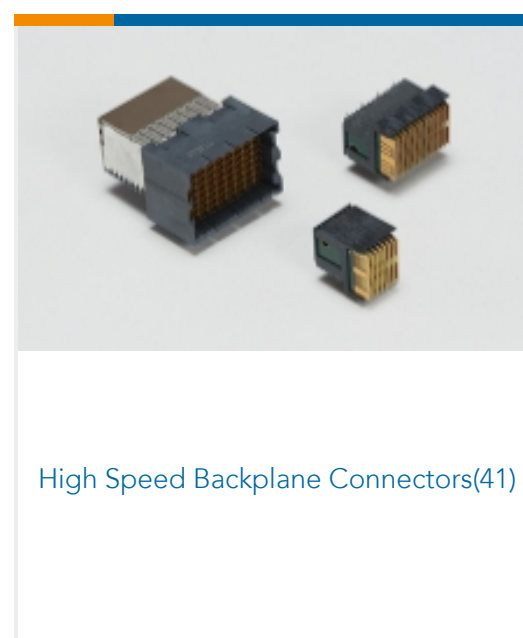
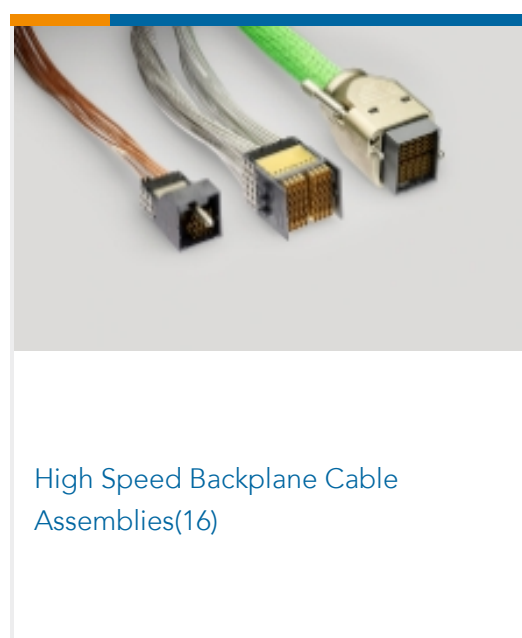
Product Compliance Disclaimer

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



Also in the Series | STRADA Whisper 3.9mm



Documents

Product Drawings

SW PIR/DPO RA ASSY 8P8C 85 OHM 90 GR

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2287841-1_A.2d_dxf.zip

English



Customer View Model

[ENG_CVM_CVM_2287841-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2287841-1_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[STRADA Whisper PiR 85-Ohm Daughtercard Routing Guide](#)

English

Product Specifications

[Application Specification](#)

English