

STRADA Whisper 3.9mm

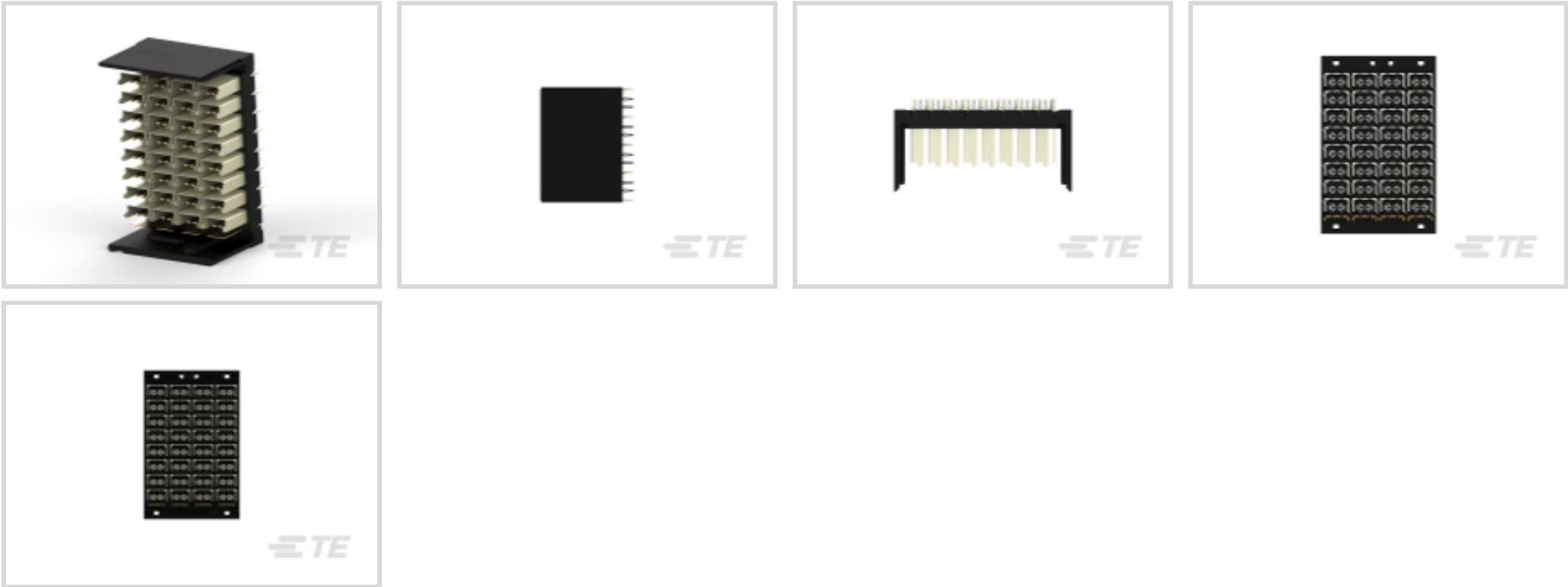
TE Internal #: 2187613-1

64 Position High Speed Backplane Connector, 8 Row, 4 Column,  
PCB Mount Header, Vertical, Partially Shrouded, STRADA Whisper  
3.9mm

[View on TE.com >](#)



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



Number of Positions: 64  
Row-to-Row Spacing: 2.5 mm [ .098 in ]  
Mating Alignment: With  
Mating Alignment Type: Keyed  
Number of Rows: 8

Features

Product Type Features

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

Configuration Features

|                            |                       |
|----------------------------|-----------------------|
| Number of Ground Positions | 36                    |
| Number of Signal Positions | 64                    |
| Backplane Architecture     | Traditional Backplane |
| Pairs per Column           | 8                     |
| Number of Positions        | 64                    |
| Number of Rows             | 8                     |
| Number of Columns          | 4                     |



PCB Mount Orientation

Vertical

Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 80 VAC |
| Impedance         | 85 Ω   |

Signal Characteristics

|                                         |         |
|-----------------------------------------|---------|
| Data Rate                               | 56 Gb/s |
| Differential Impedance                  | 85 Ω    |
| Number of Differential Pairs per Column | 6       |

Body Features

|                       |              |
|-----------------------|--------------|
| Shield Material       | Copper Alloy |
| Primary Product Color | Black        |

Contact Features

|                                               |              |
|-----------------------------------------------|--------------|
| Contact Shape & Form                          | Dual Beam    |
| Contact Base Material                         | Copper Alloy |
| PCB Contact Termination Area Plating Material | Tin          |
| Contact Type                                  | Pin          |
| Contact Current Rating (Max)                  | .4 A         |

Termination Features

|                           |                          |
|---------------------------|--------------------------|
| Termination Method to PCB | Through Hole - Press-Fit |
|---------------------------|--------------------------|

Mechanical Attachment

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

Housing Features

|                          |                 |
|--------------------------|-----------------|
| Number of Shrouded Sides | 2               |
| Housing Material         | LCP             |
| Centerline (Pitch)       | 3.9 mm[.154 in] |

Dimensions

|                    |                 |
|--------------------|-----------------|
| Row-to-Row Spacing | 2.5 mm[.098 in] |
|--------------------|-----------------|

Usage Conditions



|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                     |            |
|---------------------|------------|
| Durability Rating   | 200 Cycles |
| Circuit Application | Signal     |

Industry Standards

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

Packaging Features

|                  |      |
|------------------|------|
| Packaging Method | 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: JAN 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<br>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 reviewed 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

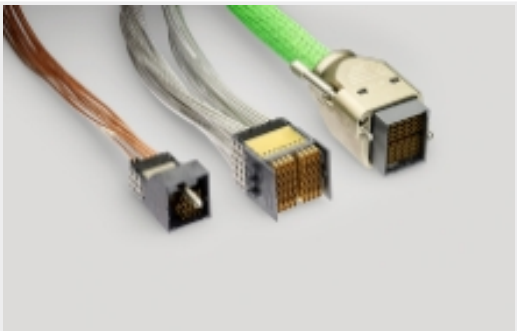


TE Part # 2187645-1  
SW PIR RECT, 85OHM, 8X4

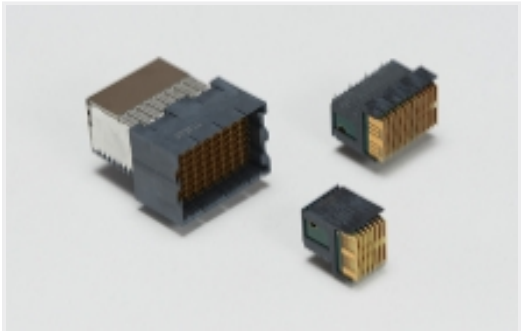


TE Part # 2215060-3  
ASSY, ST TL, 8PR, 4COL, 3.9 CL

Also in the Series | STRADA Whisper 3.9mm

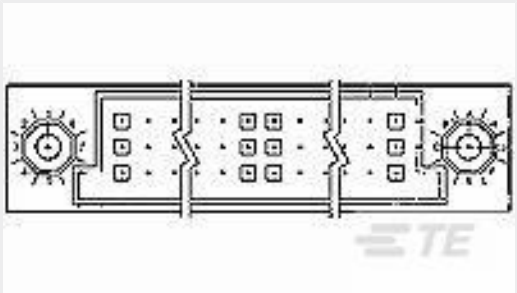


High Speed Backplane Cable Assemblies(16)



High Speed Backplane Connectors(41)

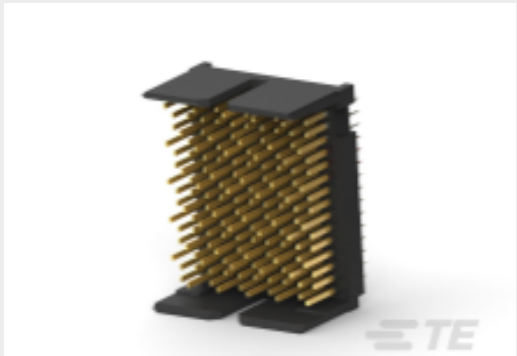
Customers Also Bought



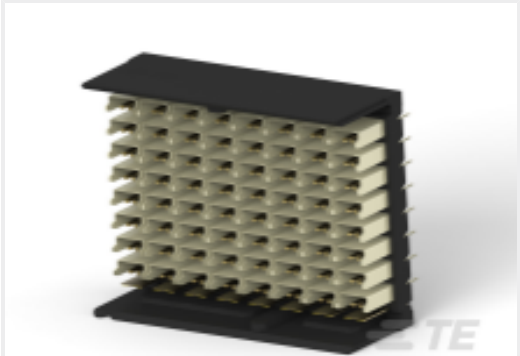
TE Part #532447-3  
HDI PIN ASSY 3 ROW 96 POS



TE Part #1-1804791-7  
INSERT TL ASSY, 5 PR 10 COLUMN



TE Part #1934325-1  
Tin Man Header Assy 5x10 Open



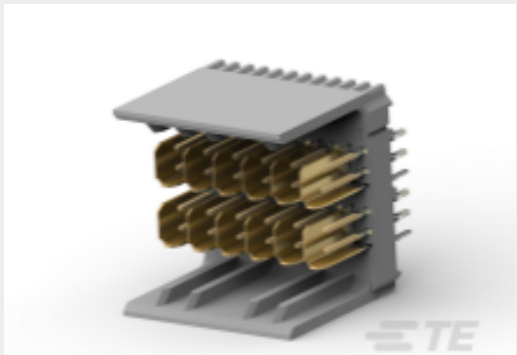
TE Part #2187614-1  
SW PIR HDR BFP, 85OHM, 8X8 OEW



TE Part #2215060-1  
ASSY, ST TL, 8PR, 8COL, 3.9 CL



TE Part #2215060-3  
ASSY, ST TL, 8PR, 4COL, 3.9 CL



TE Part #2274610-1  
HM-ZD 2PR HDR 24P 2.5MM



TE Part #1-6450550-8  
MBXL VERT RCPT 2ACP+6P+24S+5P



Documents

Product Drawings

SW PIR HDR BFP, 85OHM, 8X4 OEW

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2187613-1\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2187613-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2187613-1\_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