

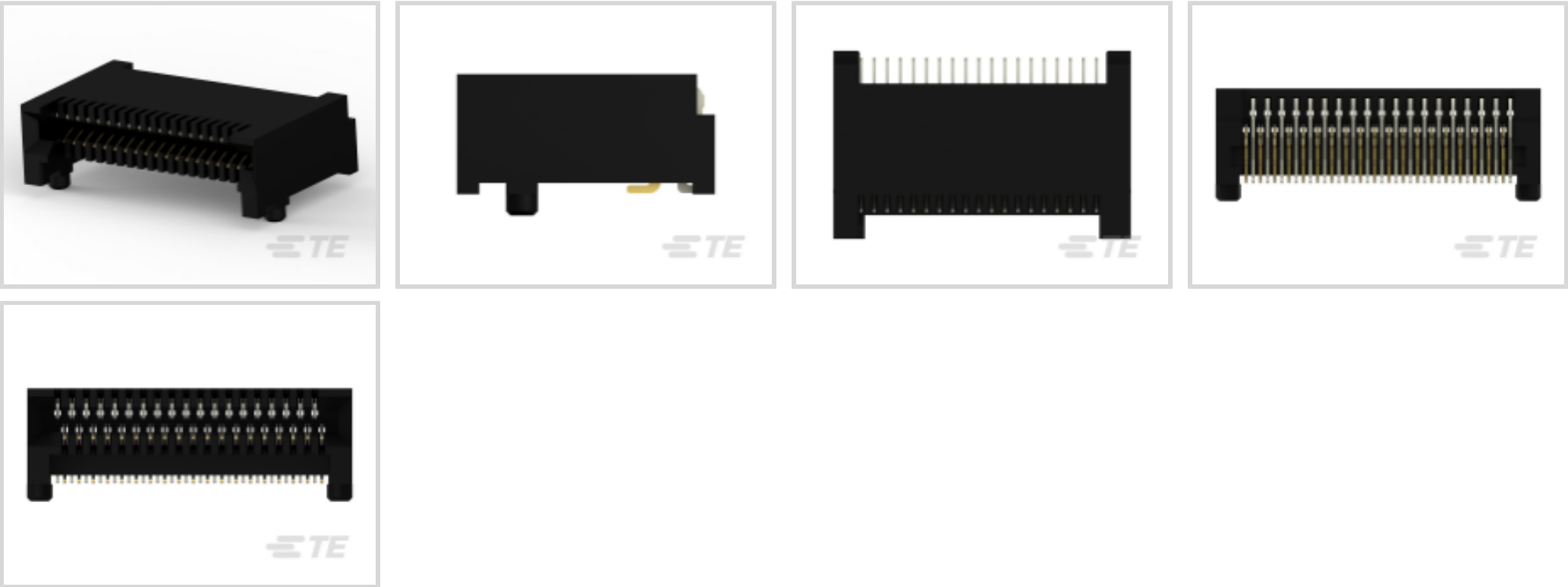


QSFP/QSFP+

TE Internal #: 2110819-1  
QSFP+, Cage Assembly, .8mm [.032in] Centerline, Signal,  
Operating Temperature Range -55 – 105 °C [-67 – 221 °F], Data  
Rate (Max) 14 Gb/s, 38 Position

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Connectors > Pluggable IO Connectors & Cages



Form Factor: **QSFP+**  
Pluggable I/O Product Type: **Cage Assembly**  
Centerline (Pitch): **.8 mm [ .032 in ]**  
Sealable: **No**  
Circuit Application: **Signal**

Features

Industry Standards

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

Termination Features

|                           |               |
|---------------------------|---------------|
| Termination Method to PCB | Surface Mount |
|---------------------------|---------------|

Dimensions

|                             |                  |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1.45 mm[.057 in] |
|-----------------------------|------------------|

Contact Features

|                                                |                |
|------------------------------------------------|----------------|
| Contact Current Rating (Max)                   | .5 A           |
| Contact Mating Area Plating Material           | Gold           |
| PCB Contact Termination Area Plating Material  | Tin            |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin] |

Packaging Features

|                  |      |
|------------------|------|
| Packaging Method | Tape |
|------------------|------|

Product Type Features

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



|                            |               |
|----------------------------|---------------|
| Form Factor                | QSFP+         |
| Pluggable I/O Product Type | Cage Assembly |
| Sealable                   | No            |

Configuration Features

|                     |    |
|---------------------|----|
| Number of Positions | 38 |
|---------------------|----|

Electrical Characteristics

|                 |         |
|-----------------|---------|
| Data Rate (Max) | 14 Gb/s |
|-----------------|---------|

Housing Features

|                    |                |
|--------------------|----------------|
| Centerline (Pitch) | .8 mm[.032 in] |
|--------------------|----------------|

Usage Conditions

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

Operation/Application

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

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)<br>Candidate List Declared Against: JUNE 2024 (241)<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                     | Reflow solder capable to 260°C                                                                                                  |

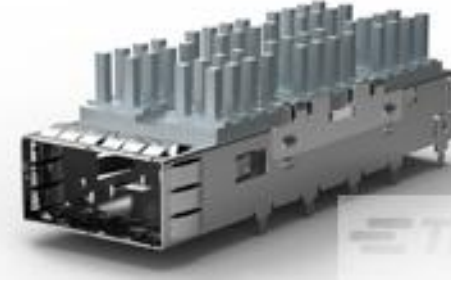
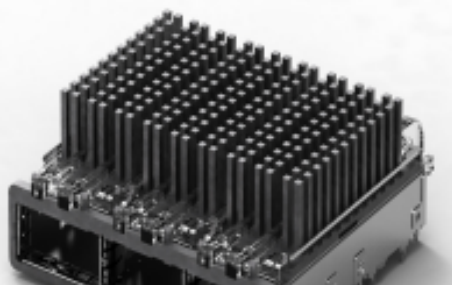
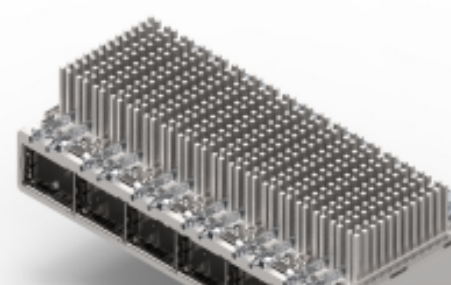
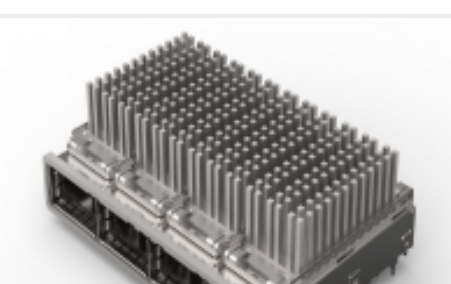
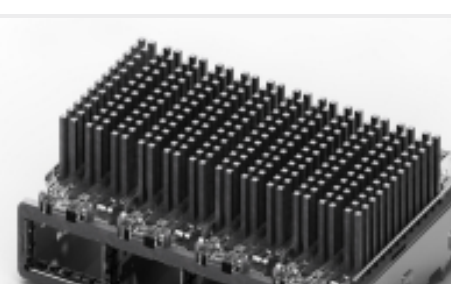
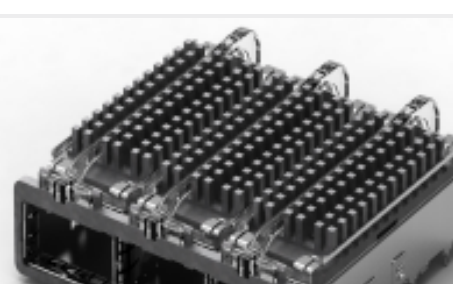
Product Compliance Disclaimer

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

|                                                                                                                                                            |                                                                                                                                                             |                                                                                                                                                              |                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 2297082-3<br/>1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQR</p>  |  <p>TE Part # 1888631-5<br/>QSFP 1X1 CAGE ASSY , THRU BEZEL, CUST HS</p>  |  <p>TE Part # 2170126-1<br/>Cage Assy W/Hsink, Thru Bezel,</p>           |  <p>TE Part # 2289858-3<br/>1X1 QSFP CAGE, SOLDER, 0.5 TILT, W/ R HS</p>   |
|  <p>TE Part # 2110412-3<br/>1x3 QSFP Kit Assy Sqr LP, Network Htsnk</p> |  <p>TE Part # 2057183-4<br/>1x4 QSFP Kit Assy, LP&amp;HS, PCI</p>        |  <p>TE Part # 2143307-3<br/>1x6 QSFP Assy w/ LP &amp; Netwk HS</p>      |  <p>TE Part # 2143330-1<br/>1X6 QSFP Kit Assy Bhnd Bzl,PCI</p>            |
|  <p>TE Part # 2143330-2<br/>1X6 QSFP Kit Assy Bhnd Bzl,SAN</p>          |  <p>TE Part # 2170287-9<br/>1X4 CAGE ASSEMBLY, THRU BEZEL, W/ GASKET</p> |  <p>TE Part # 2170322-4<br/>QSFP+ 1X1 CAGE, SOLDER, WITH HS, FINGER</p> |  <p>TE Part # 2214573-6<br/>QSFP+ CAGE ASSEMBLY,2X2, STACKED,2INNERLP</p> |
|  <p>TE Part # 2170111-2<br/>Cage Assy SAN Hsink QSFP Behind Bezel</p>   |  <p>TE Part # 2170615-4<br/>1X4 QSFP KIT ASSY BHND BZL, NETWORKING</p>   |  <p>TE Part # 2007626-3<br/>1x4 QSFP Kit Assy Sqr LP, PCI</p>           |  <p>TE Part # 2170037-2<br/>1x3 QSFP Kit, Single Sqr LP, SAN Htsnk</p>    |



TE Part # 2143331-4  
1X6 CAGE ASSEMBLY, BEHIND BEZEL, W/ SQR

TE Part # 2170249-3  
EMI Gasket, QSFP 1x1

TE Part # 2302407-1  
QSFP+ ASSY, 2X1, GSKT, 2LP-OUTR, W/ CS GA

TE Part # 2007473-2  
1x3 QSFP Cage Assy Bhnd Bzl, LP Holder

Also in the Series

QSFP/QSFP+

Light Pipes(8)

Pluggable I/O Cable Assemblies(13)

Pluggable IO Connectors & Cages(154)

QSFP, QSFP+ & zQSPF+(154)

Customers Also Bought

TE Part #1-353082-2  
DYNAMIC D-5200 HDR V ASSY 3P

TE Part #6-534206-3  
26 MODII VRT DR CE 100/115

TE Part #3-5353652-6  
.5FHP08H,440,B,GIG,08/Sn,HT,NSYes

TE Part #2301996-8  
RJ45 JACK INT.MAG. 1GB LED 1X2

TE Part #1888653-9  
2X1 OFFSET ST/JK WITH LEDS

TE Part #5-2170705-8  
CAGE ASSY, QSFP28 1X1, SPRING, HS, C LP

TE Part #2204535-4  
ELCON MINI 2X3P STACKED RA HEADER,SOLDER

TE Part #2344878-1  
CAGE ASSEMBLY, 1X2, QSFP28, SPRING, 8LP

TE Part #2383586-1  
CA, CCJ TO 2\*Dynamic

TE Part #2401979-1  
CAGE ASSY, QSFP DD 1X1, HS, LP



Documents

Product Drawings

QSFP+ Enh EVERCLEAR PT Conn

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_2110819-1\_B.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2110819-1\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2110819-1\_B.3d\_stp.zip

English

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

Datasheets & Catalog Pages

1-1773717-7\_PLUGGABLE\_IO\_QRG\_CN

English

1-1773717-8\_PLUGGABLEIO\_QRG\_TCN

English

1-1773717-9\_HIGH\_SPEED\_IO\_QRG\_JA

English

Product Specifications

Application Specification

English

Application Specification

English

Agency Approvals

UL Report

English