



QSFP/QSFP+

TE Internal #: 2214574-8  
QSFP/QSFP+, QSFP/QSFP+/zQSFP+, Cage Assembly with Integrated Connector, Port Matrix Configuration 2 x 2, Elastomeric Gasket, Included Lightpipe

[View on TE.com >](#)

Connectors > Pluggable IO Connectors & Cages > QSFP/QSFP+/zQSFP+



Pluggable I/O Product Type: **Cage Assembly with Integrated Connector**  
Port Matrix Configuration: **2 x 2**  
EMI Containment Feature Type: **Elastomeric Gasket**  
Included Lightpipe: **Yes**  
Enhancements: **Standard**

Features

Product Type Features

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Form Factor                       | QSFP+                                   |
| Cage Type                         | Stacked                                 |
| Pluggable I/O Product Type        | Cage Assembly with Integrated Connector |
| Connector System                  | Cable-to-Board                          |
| Sealable                          | Yes                                     |
| Connector & Contact Terminates To | Printed Circuit Board                   |

Configuration Features

|                                     |             |
|-------------------------------------|-------------|
| Port Matrix Configuration           | 2 x 2       |
| Number of Ports                     | 4           |
| Lightpipe Configuration             | All Four Up |
| Number of Rear EONs per Port Column | 0           |
| Number of Positions                 | 152         |

Electrical Characteristics

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

Contact Features

|                                       |                |
|---------------------------------------|----------------|
| Contact Mating Area Plating Material  | Gold           |
| Contact Mating Area Plating Thickness | .76 µm[30 µin] |



|                               |     |
|-------------------------------|-----|
| Contact Underplating Material | Tin |
|-------------------------------|-----|

|                                               |      |
|-----------------------------------------------|------|
| PCB Contact Termination Area Plating Material | Gold |
|-----------------------------------------------|------|

Termination Features

|                                             |                          |
|---------------------------------------------|--------------------------|
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |
|---------------------------------------------|--------------------------|

Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

Housing Features

|               |               |
|---------------|---------------|
| Cage Material | Nickel Silver |
|---------------|---------------|

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

Dimensions

|                             |                  |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |
|-----------------------------|------------------|

|             |               |
|-------------|---------------|
| Tail Length | 2 mm[.079 in] |
|-------------|---------------|

Usage Conditions

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

Operation/Application

|                      |    |
|----------------------|----|
| Heat Sink Compatible | No |
|----------------------|----|

|                                     |                                                         |
|-------------------------------------|---------------------------------------------------------|
| For Use With Pluggable I/O Products | QSFP Cable Assembly, QSFP MSA<br>Compatible Transceiver |
|-------------------------------------|---------------------------------------------------------|

|                            |                             |
|----------------------------|-----------------------------|
| Pluggable I/O Applications | SFP+ Stacked Belly-to-Belly |
|----------------------------|-----------------------------|

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

Industry Standards

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

Packaging Features

|                  |            |
|------------------|------------|
| Packaging Method | Box & Tray |
|------------------|------------|

Other

|                              |                    |
|------------------------------|--------------------|
| EMI Containment Feature Type | Elastomeric Gasket |
|------------------------------|--------------------|

|                    |     |
|--------------------|-----|
| Included Lightpipe | Yes |
|--------------------|-----|

|              |          |
|--------------|----------|
| Enhancements | Standard |
|--------------|----------|

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 2021 (211)<br>Candidate List Declared Against: JUL 2019 (201)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                          |
| 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 # CAT-C11-H501114  
QSFP to QSFP I/O Cable Assembly: 30 AWG



TE Part # CAT-C11-H50111  
QSFP-Four SFP+ I/O Cable Assembly 30 AWG



TE Part # 2110819-1  
QSFP+ Enh EVERCLEAR PT Conn



TE Part # 1888810-2  
EMI/Dust Cover,XFP And QSFP



TE Part # CAT-C11-H5011  
QSFP-Four SFP+ I/O Cable Assembly 28 AWG



TE Part # CAT-C11-H5011142  
QSFP to QSFP I/O Cable Assembly: 33 AWG



TE Part # 2053638-5  
C/A, QSFP, 5M, P1-P2, UNEQUALIZED



TE Part # 1-2220639-0  
QSFP TO QSFP, ACTIVE, 28AWG, 10M





TE Part # 1-2220639-3  
QSFP TO QSFP, ACTIVE, 28AWG, 13M



TE Part # 2053638-4  
C/A, QSFP, 4M, P1-P2, UNEQUALIZED



TE Part # CAT-C11-H501  
QSFP-Four SFP+ I/O Cable Assembly 26 AWG



TE Part # 2202165-4  
QSFP TO QSFP, 26AWG, FDR, 4.0 METER



TE Part # 2202165-5  
QSFP TO QSFP, 26AWG, FDR, 5.0 METER



TE Part # 2829040-4  
QSFP IB EDR, 30AWG, 1.0M



TE Part # 2821033-8  
QSFP TO [4]SFP+, 28G, 1M, 33AWG

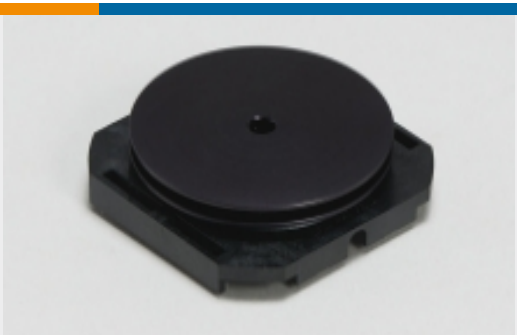


TE Part # 2202165-1  
QSFP TO QSFP, 30AWG, FDR, 1.0 METER



TE Part # 2202165-3  
QSFP TO QSFP, 28AWG, FDR, 3.0 METER

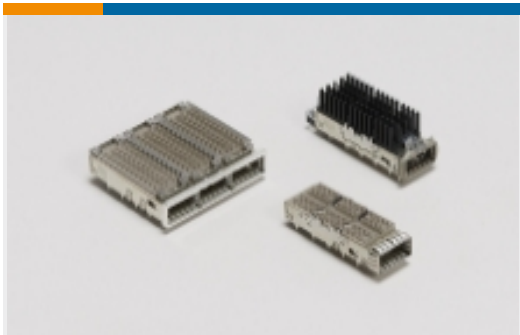
Also in the Series | **QSFP/QSFP+**



Heat Sinks(1)



Pluggable I/O Cable Assemblies(33)



QSFP/QSFP+/zQSFP+(168)

Customers Also Bought



TE Part #2274730-1  
SW RA RCP ASM, 8P, 8C, 85O, PIC,



TE Part #2198724-1  
zSFP+ Cage Assembly: Elastomeric Gasket



TE Part #2293156-2  
zSFP+ Cage Assembly: EMI Springs



TE Part #2007863-1  
IMP100S,H,V5P16C,RG,LEW39,4.5







TE Part #2042139-2  
RA Male Connector, IEC L3



TE Part #2185223-1  
ASSY, SEATING TOOL, QSFP

TE Part #2226412-1  
ASSY PIN MODULE, 16-02 PCB RA,  
STD



TE Part #4-2170740-1  
QSFP28, 1X3, CAGE ASSY, SPRING,  
HS, LP



TE Part #4-2170740-2  
QSFP28, 1X3, CAGE ASSY, SPRING,  
HS, LP



TE Part #ZPF000000000167184  
732-8311-16

Documents

Product Drawings

2X2 QSFP CAGE AND PT CONNECTOR ASSEMBLY

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2214574-8\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2214574-8\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2214574-8\_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

Application Specification

English