



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



Pluggable I/O Product Type: **Cage Assembly**  
Port Matrix Configuration: **1 x 1**  
EMI Containment Feature Type: **Customer Applied Gasket**  
Thermal Accessory Type Included: **Heat Sink**  
Included Lightpipe: **Yes**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Form Factor                       | QSFP+                 |
| Cage Type                         | Single                |
| Pluggable I/O Product Type        | Cage Assembly         |
| Thermal Accessory Type Included   | Heat Sink             |
| Connector System                  | Cable-to-Board        |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

|                                     |            |
|-------------------------------------|------------|
| Port Matrix Configuration           | 1 x 1      |
| Number of Ports                     | 1          |
| Lightpipe Configuration             | Dual Round |
| Number of Rear EONs per Port Column | 2          |

Electrical Characteristics

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

Body Features

|                  |                |
|------------------|----------------|
| Heat Sink Finish | Anodized Black |
| Heat Sink Style  | Pin            |



|                        |                 |
|------------------------|-----------------|
| Heat Sink Height Class | PCI             |
| Heat Sink Height       | 4.2 mm[.165 in] |

Contact Features

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

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

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Tail Length                 | 2.2 mm[.086 in]  |
| PCB Thickness (Recommended) | 1.45 mm[.057 in] |

Usage Conditions

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

Operation/Application

|                                     |                                                      |
|-------------------------------------|------------------------------------------------------|
| For Use With Pluggable I/O Products | QSFP Cable Assembly, QSFP MSA 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 | Customer Applied Gasket |
| Included Lightpipe           | Yes                     |
| Enhancements                 | Standard                |

Product Compliance

For compliance documentation, visit the product page on TE.com>

|                              |                  |
|------------------------------|------------------|
| EU RoHS Directive 2011/65/EU | Not Yet Reviewed |
|------------------------------|------------------|



|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| 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>Not Yet Reviewed |
| Halogen Content                               | Not Yet Reviewed for halogen content                            |
| 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 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

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 # 2821309-4  
QSFP TO [2]QSFP, 28G, 3 METER, 30AWG



TE Part # 2821309-7  
QSFP TO [2]QSFP, 28G, 1 METER, 33AWG



TE Part # 2821309-8  
QSFP TO [2]QSFP, 28G, 3 METER, 28AWG



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



TE Part # 2821309-3  
QSFP TO [2]QSFP, 28G, 3 METER, 26AWG



TE Part # 2821309-5  
QSFP TO [2]QSFP, 28G, 2 METER, 26AWG



TE Part # 2821309-9  
QSFP TO [2]QSFP, 28G, 5 METER, 26AWG



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 # 2821309-2  
QSFP TO [2]QSFP, 28G, 2 METER, 30AWG

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



Heat Sinks(1)



Pluggable I/O Cable Assemblies(33)



QSFP/QSFP+/zQSFP+(168)

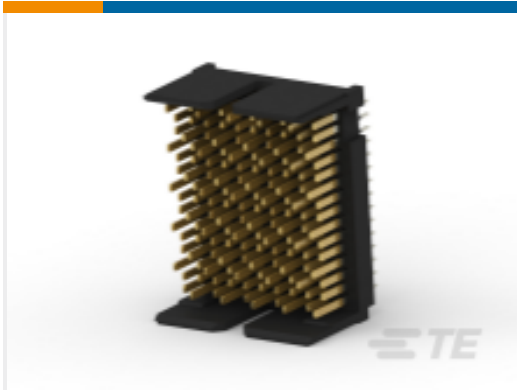
Customers Also Bought



TE Part #2170872-1  
Hard Metric Male Connector:  
Traditional Backplane, Mezzanine,  
2mm



TE Part #2-1658063-3  
MSB0.80PL5ASY120FL,-,10,-TY



TE Part #1934937-1  
Tinman 5pr 10col open hdr assy



TE Part #2-1734774-1  
PCI EXP 3.1L 98 POS WHT 30u"



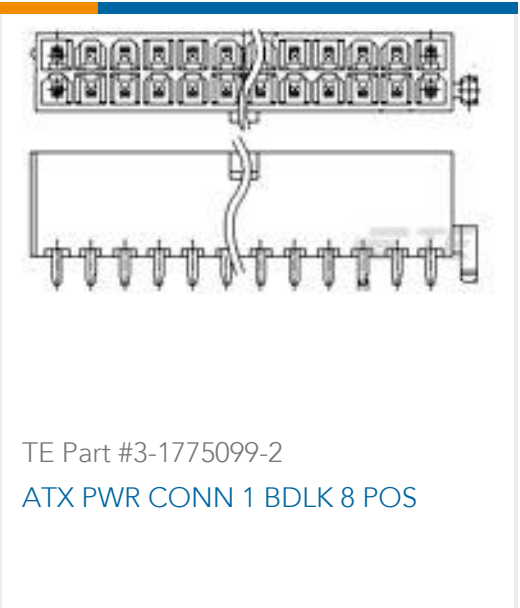
TE Part #2007850-1  
IMP100S,H,V5P10C,UG,DEW46,4.5



TE Part #2132423-1  
IMP100O,R,RA3P6C,RG,39



TE Part #2204400-4  
MULTI-BEAM HD R/A REC.  
15S+3P+3P+15S



TE Part #3-1775099-2  
ATX PWR CONN 1 BDLK 8 POS



TE Part #6-1658043-2  
MSB0.80RC-ASY080FL,GP,F,-TR



TE Part #2-2204910-5  
MBXLE R/A HEADER 4HDP + 92S + 4HDP

Documents

Product Drawings

QSFP 1X1 BEHIND BEZEL ASSEMBLY

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2170112-1\_4.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2170112-1\_4.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2170112-1\_4.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications

Application Specification

English