



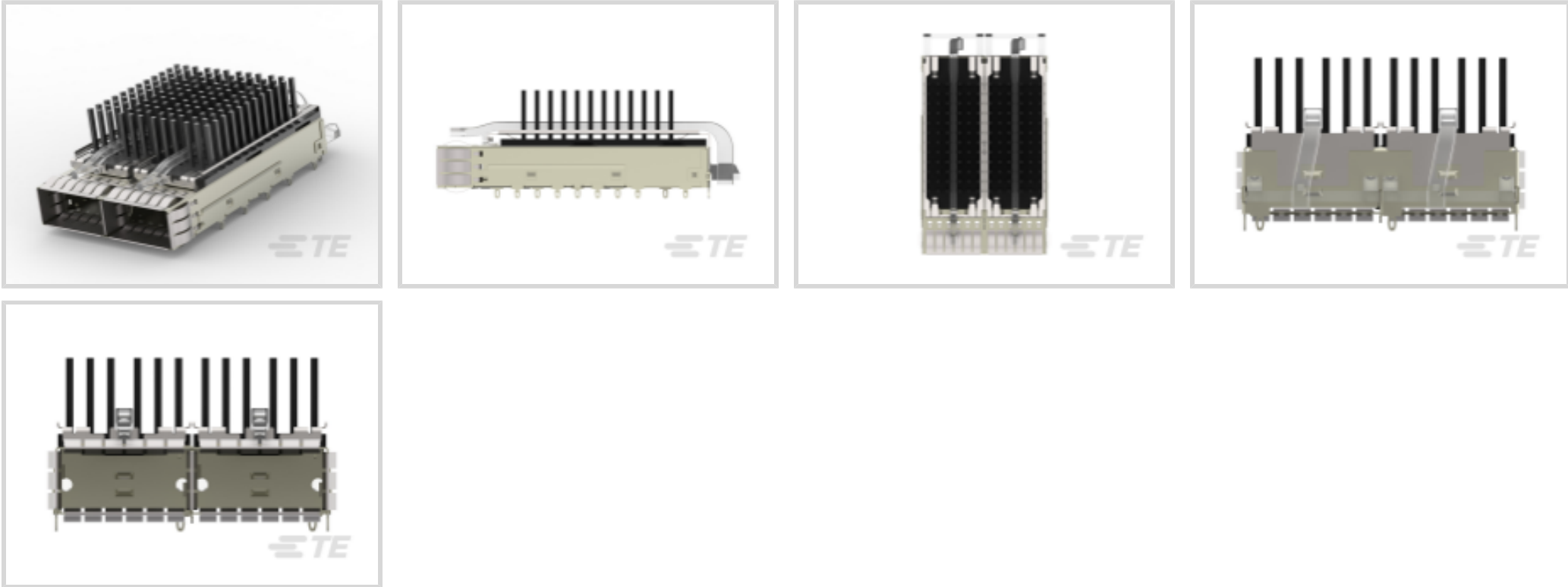
zQSFP+/QSFP28

TE Internal #: 2170808-6

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range  
-40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 2 Ports

[View on TE.com >](#)

Connectors > Pluggable IO Connectors & Cages



Pluggable I/O Product Type: **Cage Assembly**  
Sealable: **No**  
Circuit Application: **Signal**  
Operating Temperature Range: **-40 – 85 °C [-40 – 185 °F]**  
Data Rate (Max): **28 Gb/s**

Features

Product Type Features

|                                 |               |
|---------------------------------|---------------|
| Thermal Accessory Type Included | Heat Sink     |
| Cage Type                       | Ganged        |
| Pluggable I/O Product Type      | Cage Assembly |
| Sealable                        | No            |
| Form Factor                     | QSFP28/56     |

Configuration Features

|                                     |       |
|-------------------------------------|-------|
| Number of Rear EONs per Port Column | 0     |
| Number of Ports                     | 2     |
| Port Matrix Configuration           | 1 x 2 |

Electrical Characteristics

|                 |         |
|-----------------|---------|
| Data Rate (Max) | 28 Gb/s |
|-----------------|---------|

Body Features

|                  |                  |
|------------------|------------------|
| Heat Sink Finish | Anodized Black   |
| Heat Sink Height | 13.5 mm[.531 in] |



|                        |            |
|------------------------|------------|
| Heat Sink Height Class | Networking |
| Heat Sink Style        | Pin        |

Contact Features

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

Termination Features

|                                |                          |
|--------------------------------|--------------------------|
| Termination Post & Tail Length | 2.05 mm[.081 in]         |
| Termination Method to PCB      | Through Hole - Press-Fit |

Housing Features

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

Dimensions

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

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -40 – 85 °C[-40 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

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

|                              |                               |
|------------------------------|-------------------------------|
| Included Lightpipe           | Yes                           |
| EMI Containment Feature Type | Internal/External EMI Springs |

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) |



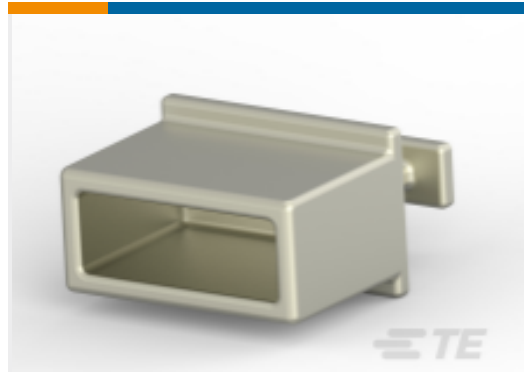
Candidate List Declared Against: JUNE 2022 (224)  
Does not contain REACH SVHC

|                           |                                                |
|---------------------------|------------------------------------------------|
| Halogen Content           | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Not applicable 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

|                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                        |                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # CAT-C11-Z806726<br/>QSFP28 to QSFP28 Cable Assembly:<br/>30 AWG</p>  |  <p>TE Part # CAT-C11-N49<br/>QSFP28-Two QSFP28 Cable<br/>Assembly: 30 AWG</p>    |  <p>TE Part # CAT-C11-Z8<br/>QSFP28 to QSFP28 Cable Assembly:<br/>26 AWG</p>      |  <p>TE Part # CAT-C11-N490333<br/>QSFP28-Four SFP+ Cable Assembly:<br/>30 AWG</p> |
|  <p>TE Part # CAT-C11-N490325<br/>QSFP28-Four SFP+ Cable Assembly:<br/>26 AWG</p>  |  <p>TE Part # CAT-Q17-N490325<br/>QSFP56 to QSFP56 Cable Assembly:<br/>30 AWG</p> |  <p>TE Part # CAT-Q17-N49033<br/>QSFP56-Two QSFP56 Cable<br/>Assembly: 30 AWG</p> |  <p>TE Part # CAT-Q17-N49011<br/>QSFP56-Four SFP56 Cable Assembly:<br/>30 AWG</p> |
|  <p>TE Part # CAT-Q17-N490333<br/>QSFP56-Four SFP56 Cable Assembly:<br/>26 AWG</p> |  <p>TE Part # 1888810-2<br/>EMI/Dust Cover,XFP And QSFP</p>                       |  <p>TE Part # 1551920-2<br/>zQSFP+ connector assembly</p>                         |  <p>TE Part # CAT-C11-Q17<br/>QSFP56 to QSFP56 Cable Assembly:<br/>26 AWG</p>     |



TE Part # 4-2215048-4  
ASSY, SEATING TL, QSFP28, 1X2

Also in the Series | zQSFP+/QSFP28

Heat Sinks(7)

Pluggable I/O Cable Assemblies(78)

Pluggable IO Connectors & Cages(424)

Customers Also Bought

TE Part #5146888-1  
1FHP,64,30A/S,S,C,S10,12,13,15

TE Part #1888247-1  
20 POS SMT CONN, SFP/SFP+, 30A

TE Part #2007705-1  
IMP100S,R,RA3P10C,UG,39

TE Part #1888653-4  
2X1 OFFSET ST/JK WITH LEDS

TE Part #1-2170704-2  
CAGE ASSY, QSFP28 1X1, SPRING, HS

TE Part #1571988-1  
AE101J1AB004=SGL,SEALED ROCKER

TE Part #1714836-1  
CABLE CMDFRMA PRMA/MDF LINK

TE Part #1714846-1  
INTCCPU CABLE

TE Part #1932093-1  
XFP KIT W/CAGE, CLIP, PCI

TE Part #2073569-1  
CPU3 TO RAC.BOX



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2170808-6\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2170808-6\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2170808-6\_A.3d\_stp.zip

English

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

Datasheets & Catalog Pages

QSFP28/56 and zQSFP+ Interconnects

English

Product Specifications

Product Specification

English