



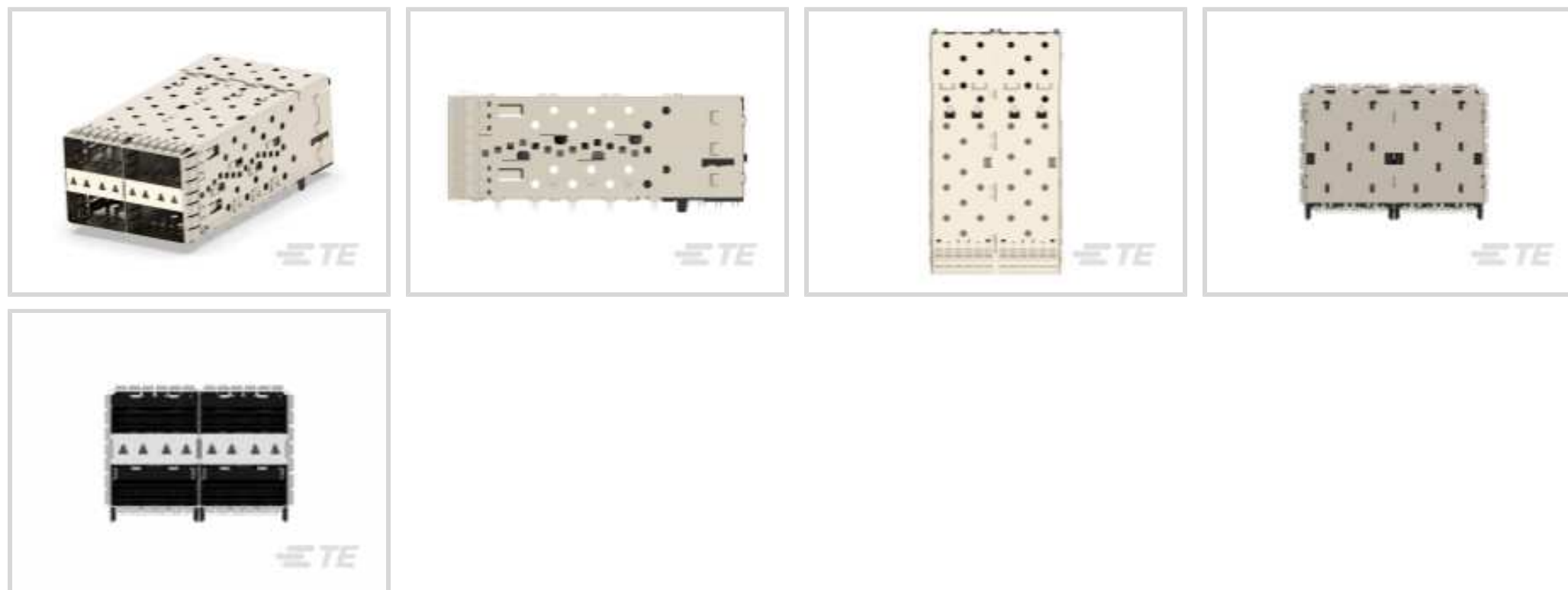
**zQSFP+/QSFP28**

TE Internal #: 2293961-1

QSFP, QSFP+ & zQSFP+, Cage Assembly with Integrated Connector, 2 x 2, Internal/External EMI Springs, Included Lightpipe, zQSFP+/QSFP28

[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: **Internal/External EMI Springs**

Included Lightpipe: **Yes**

Data Rate (Max): **10 Gb/s**

**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	No
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 Positions	152

**Electrical Characteristics**

Data Rate (Max)	10 Gb/s
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**Contact Features**



Contact Current Rating (Max)	.5 A
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### Mechanical Attachment

Connector Mounting Type	Board Mount
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### Housing Features

Cage Material	Stainless Steel
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Centerline (Pitch)	.8 mm[.031 in]
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### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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### Operation/Application

Circuit Application	Signal
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### Other

EMI Containment Feature Type	Internal/External EMI Springs
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Included Lightpipe	Yes
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### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2023 (233) Candidate List Declared Against: JUN 2016 (169) Does not contain REACH SVHC
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Not applicable for solder process capability
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#### 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 # 2110819-1  
QSFP+ Enh EVERCLEAR PT Conn



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

## Also in the Series | zQSFP+/QSFP28



Pluggable I/O Cable Assemblies(81)



QSFP, QSFP+ & zQSFP+(432)

## Customers Also Bought



TE Part #2198325-7  
zSFP+ Stacked Cage Assembly: EMI Spring



TE Part #2821224-1  
SFP28 DIRECT ATTACH CA, 1M, 26AWG



TE Part #2227669-7  
ZQSFP+ STACKED REC ASSEMBLY 2X1,4LP 4UP



TE Part #2289129-1  
ZQSFP+ CAGE& CONN 2X2, EMI SPRING, 4 LP



TE Part #3-1624246-7  
RSS3 4K7 5% AMMO PK



TE Part #4-2170747-1  
CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP

## Documents

### Product Drawings

[2X2 QSFP+ SPRING CAGE AND CONNECTOR](#)



English

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**CAD Files**

**3D PDF**

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2293961-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2293961-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2293961-1\\_A.3d\\_stp.zip](#)

English

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**Product Specifications**

**Application Specification**

English

**Application Specification**

English