



zQSFP+/QSFP28

TE Internal #: 2289129-1
zQSFP+/QSFP28, QSFP/QSFP+/zQSFP+, Cage Assembly with Integrated Connector, Port Matrix Configuration 2 x 2, Internal /External EMI Springs

[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**
Enhancements: **Standard**

Features

Product Type Features

Form Factor	zQSFP+
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 Rear EONs per Port Column	3
Number of Positions	152

Electrical Characteristics

Data Rate (Max)	25 Gb/s
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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
Contact Current Rating (Max)	.5 A

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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Mechanical Attachment

Connector Mounting Type	Board Mount
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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	-40 – 85 °C[-40 – 185 °F][-40 – 185 °F]
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Operation/Application

Heat Sink Compatible	No
For Use With Pluggable I/O Products	QSFP28 Cable Assembly, QSFP28 MSA Compatible Transceiver
Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Box & Tray
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Other

EMI Containment Feature Type	Internal/External EMI Springs
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) Candidate List Declared Against: JAN 2021 (211) 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

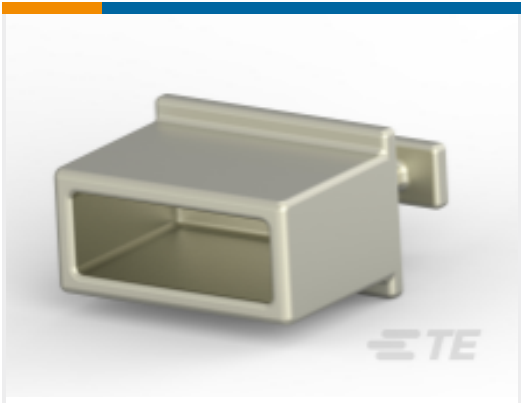
Product Compliance Disclaimer

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



TE Part # 1551920-2
zQSFP+ connector assembly

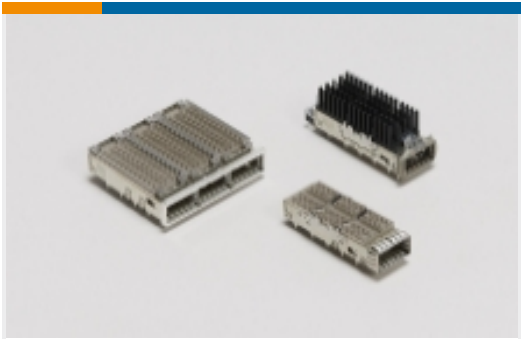


TE Part # 1888810-2
EMI/Dust Cover, XFP And QSFP

Also in the Series | zQSFP+/QSFP28



Pluggable I/O Cable Assemblies(84)



QSFP/QSFP+/zQSFP+(430)



Customers Also Bought

TE Part #1469265-5
UPM R/A KEYED GUIDE PIN

TE Part #1735482-3
Free Height Receptacle Conn: Board-Board, Vertical, 80, 0.8mm

TE Part #2007492-6
SFP+ Stacked Cage Assemblies

TE Part #5-102699-5
12 MODII HDR DRST SHRD A/PIN

TE Part #2127932-4
SFP+ to SFP+ I/O Cable Assembly: 28 AWG

TE Part #2127934-1
SFP+ to SFP+ I/O Cable Assembly: 24 AWG

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

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

TE Part #2274842-2
HARDWARE KIT, CFP2, 1X1,

Documents

Product Drawings

ZQSFP+ CAGE& CONN 2X2, EMI SPRING, 4 LP

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2289129-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2289129-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2289129-1_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

Application Specification

English

Product Environmental Compliance

TE Material Declaration

English