



zQSFP+/QSFP28

TE Internal #: 2227224-2

zQSFP+/QSFP28, QSFP/QSFP+/zQSFP+, Cage Assembly with Integrated Connector, Port Matrix Configuration 2 x 1, Elastomeric Gasket, Included Lightpipe

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



Pluggable I/O Product Type: **Cage Assembly with Integrated Connector**

Port Matrix Configuration: **2 x 1**

EMI Containment Feature Type: **Elastomeric Gasket**

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	Yes
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Port Matrix Configuration	2 x 1
Number of Ports	2
Lightpipe Configuration	Outer Left Indicator Up
Number of Rear EONs per Port Column	3
Number of Positions	76

Electrical Characteristics

Data Rate (Max)	28 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	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
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Packaging Features

Packaging Method	Box & Tray
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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	Not Yet Reviewed
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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) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
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 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 # 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 #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

zQSFP+ STACKED RECEPTACLE ASSEMBLY 2X1

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2227224-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2227224-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2227224-2_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