



zQSFP+/QSFP28

TE Internal #: 4-2170785-4

zQSFP+/QSFP28, QSFP/QSFP+/zQSFP+, Cage Assembly, Port Matrix Configuration 1 x 4, Elastomeric Gasket, Included Lightpipe, Standard

[View on TE.com >](#)
[Connectors > Pluggable IO Connectors & Cages > QSFP/QSFP+/zQSFP+](#)
Pluggable I/O Product Type: **Cage Assembly**Port Matrix Configuration: **1 x 4**EMI Containment Feature Type: **Elastomeric Gasket**Thermal Accessory Type Included: **Heat Sink**Included Lightpipe: **Yes**

Features

Product Type Features

Form Factor	QSFP28/56
Cage Type	Ganged
Pluggable I/O Product Type	Cage Assembly
Thermal Accessory Type Included	Heat Sink
Connector System	Cable-to-Board
Sealable	Yes
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Port Matrix Configuration	1 x 4
Number of Ports	4
Lightpipe Configuration	Quad Round
Number of Rear EONs per Port Column	0

Electrical Characteristics

Data Rate (Max)	28 Gb/s
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Body Features

Heat Sink Finish	Anodized Black
Heat Sink Style	Pin



Heat Sink Height Class	PCI
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Heat Sink Height	4.2 mm[.165 in]
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Contact Features

PCB Contact Termination Area Plating Material	Tin
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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
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Dimensions

Tail Length	2.05 mm[.081 in]
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PCB Thickness (Recommended)	1.57 mm[.062 in]
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Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F][-40 – 185 °F]
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Operation/Application

For Use With Pluggable I/O Products	QSFP28 Cable Assembly, QSFP28 MSA Compatible Transceiver
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Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
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Circuit Application	Signal
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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
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Included Lightpipe	Yes
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Enhancements	Standard
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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) Candidate List Declared Against: JUN 2015 (163) SVHC > Threshold: 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

 <p>TE Part # CAT-C11-Z8 QSFP28 to QSFP28 Cable Assembly: 26 AWG</p>	 <p>TE Part # CAT-C11-Z806726 QSFP28 to QSFP28 Cable Assembly: 30 AWG</p>	 <p>TE Part # CAT-C11-N49 QSFP28-Two QSFP28 Cable Assembly: 30 AWG</p>	 <p>TE Part # CAT-C11-N490333 QSFP28-Four SFP+ Cable Assembly: 30 AWG</p>
 <p>TE Part # CAT-C11-N490325 QSFP28-Four SFP+ Cable Assembly: 26 AWG</p>	 <p>TE Part # CAT-Q17-N490325 QSFP56 to QSFP56 Cable Assembly: 30 AWG</p>	 <p>TE Part # CAT-Q17-N49033 QSFP56-Two QSFP56 Cable Assembly: 30 AWG</p>	 <p>TE Part # CAT-C11-Q17 QSFP56 to QSFP56 Cable Assembly: 26 AWG</p>




TE Part # CAT-Q17-N49011
QSFP56-Four SFP56 Cable Assembly:
30 AWG



TE Part # CAT-Q17-N490333
QSFP56-Four SFP56 Cable Assembly:
26 AWG



TE Part # 1551920-2
zQSFP+ connector assembly



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



TE Part # 2215047-4
ASSY, STG TL, QSFP28 LP,1X4

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"



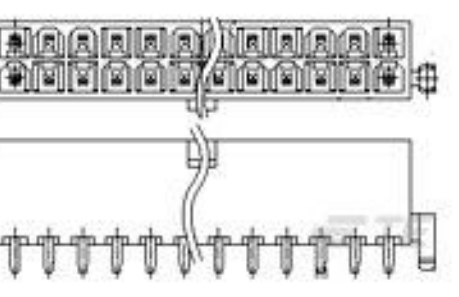
TE Part #2007850-1
IMP100S,H,V5P10C,UG,DEW46,4,5



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



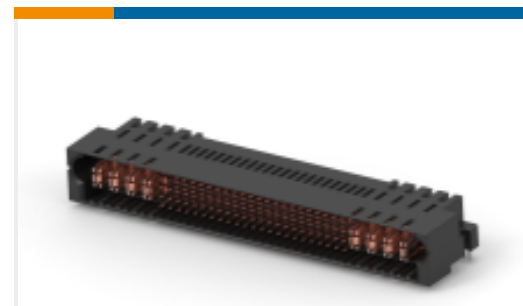
TE Part #2204400-4
MULTI-BEAM HD R/A REC.
15S+3P+3P+15S



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

CAGE ASSY, 1X4, QSFP28, GASKET, HS, LP

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_4-2170785-4_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_4-2170785-4_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_4-2170785-4_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

Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English