

2170745-1 ✓ ACTIVE

zQSFP+/QSFP28

TE Internal #: 2170745-1

QSFP, QSFP+ & zQSPF+, Cage Assembly, 1 x 4, Internal/External

EMI Springs, Standard, Data Rate (Max) 28 Gb/s, 4 Port, Pin,

zQSFP+/QSFP28

[View on TE.com >](#)



Connectors > Pluggable IO Connectors & Cages > QSFP, QSFP+ & zQSPF+



Pluggable I/O Product Type: **Cage Assembly**

Port Matrix Configuration: **1 x 4**

EMI Containment Feature Type: **Internal/External EMI Springs**

Thermal Accessory Type Included: **Heat Sink**

Included Lightpipe: **No**

## 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	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Port Matrix Configuration	1 x 4
Number of Ports	4
Number of Rear EONs per Port Column	1

### Electrical Characteristics

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

### Body Features

Heat Sink Finish	Anodized Black
Heat Sink Style	Pin
Heat Sink Height Class	PCI



Heat Sink Height	4.2 mm[.165 in]
------------------	-----------------

### Termination Features

Termination Post & Tail Length	2.05 mm[.081 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

### Mechanical Attachment

Connector Mounting Type	Board Mount
-------------------------	-------------

### Housing Features

Cage Material	Nickel Silver
Centerline (Pitch)	19 mm[.748 in]

### Dimensions

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

### Usage Conditions

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

### Operation/Application

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
------------------------	----------

### Packaging Features

Packaging Method	Box & Tray
------------------	------------

### Other

EMI Containment Feature Type	Internal/External EMI Springs
Included Lightpipe	No
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: JUNE 2023 (235)

Candidate List Declared Against: JAN 2023 (233)

Does not contain REACH SVHC

Halogen Content

Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

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 # CAT-C11-Z806726  
QSFP28 to QSFP28 Cable Assembly:  
30 AWG



TE Part # CAT-C11-N49  
QSFP28-Two QSFP28 Cable  
Assembly: 30 AWG



TE Part # CAT-C11-Z8  
QSFP28 to QSFP28 Cable Assembly:  
26 AWG



TE Part # CAT-C11-N490333  
QSFP28-Four SFP+ Cable Assembly:  
30 AWG



TE Part # CAT-C11-N490325  
QSFP28-Four SFP+ Cable Assembly:  
26 AWG



TE Part # CAT-Q17-N490325  
QSFP56 to QSFP56 Cable Assembly:  
30 AWG



TE Part # CAT-Q17-N49033  
QSFP56-Two QSFP56 Cable  
Assembly: 30 AWG



TE Part # CAT-C11-Q17  
QSFP56 to QSFP56 Cable Assembly:  
26 AWG




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 # 6-2215048-4  
ASSY, SEATING TL, QSFP28, 1X4

Also in the Series | **zQSFP+/QSFP28**



Pluggable I/O Cable Assemblies(81)



QSFP, QSFP+ & zQSFP+(432)

Customers Also Bought



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



TE Part #1838275-3  
M12 Fld Ser CONN. Male Pin Sldr



TE Part #1879217-5  
CPF 0603 200K 0.1% 25PPM 1K RL



TE Part #3-1676481-8  
CPF 0603 200R 0.1% 25PPM 1K RL



TE Part #1-2314844-0  
10P,2MM,B-B,REC,DRVT,SMD,0.1AU,  
TB,W/CP



TE Part #7-2176370-9  
RQ 0603 2K8 0.1% 10PPM 5K RL



TE Part #4425-015A  
PRESSURE SENSOR,IDX, 4425-015A



TE Part #CAT-FSS0012  
Fuel/Oil Flow Switch, Male, 3/8 BSP



TE Part #1888251-3  
Low Profile,RJ45,1x4,No Led's

## Documents

### CAD Files

[3D PDF](#)

[3D](#)

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2170745-1\\_A.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2170745-1\\_A.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2170745-1\\_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