

詮欣股份有限公司 CHANT SINCERE CO., LTD.

SFP/QSFP

Cage Assembly Connector





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About Chant Sincere



Chant Sincere Co., Ltd. was set up in 1985., With the management concept of "Honest, Innovative, Quaity, Longterm" to design and manufacture connector and cable. Keep developing new innovative products and integrating vertically from R&D, tooling, assembly and quality control to meet the demands (quality/cost/delivery) from customers. Chant Sincere Co., Ltd. Has been constructing various of product families to provide a total solution to customers.

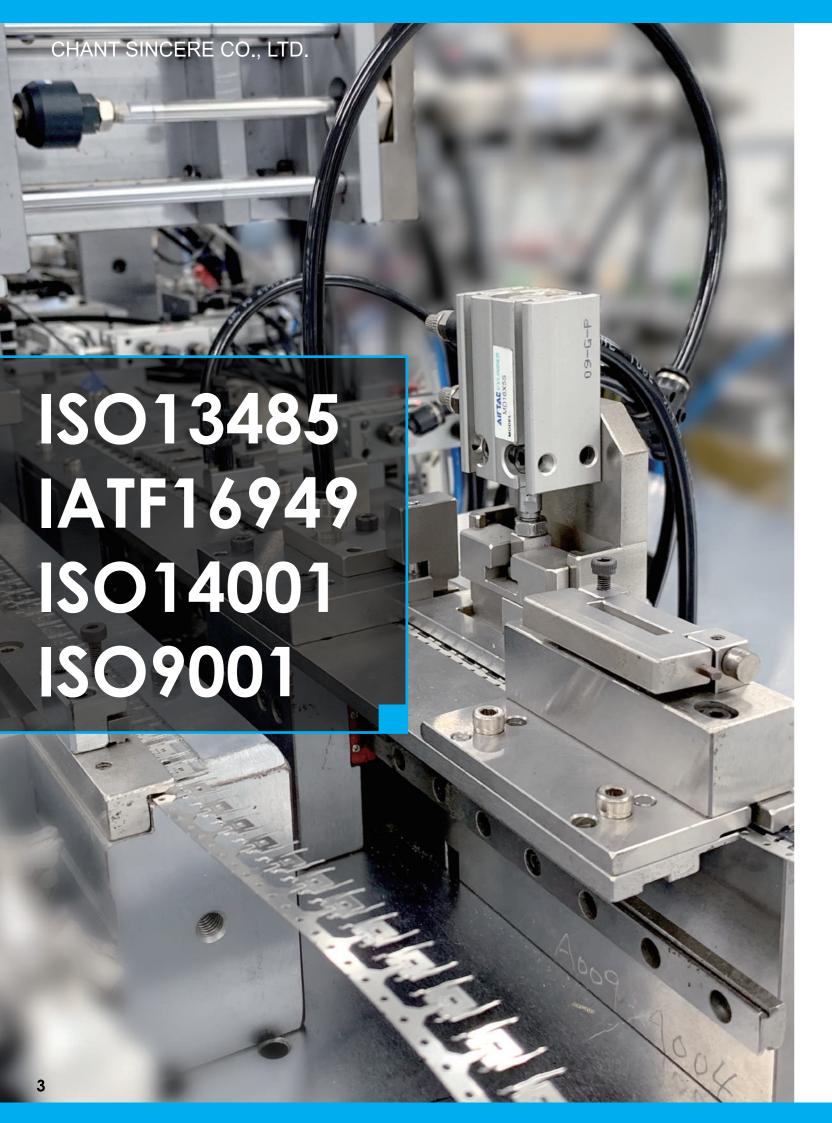
The connector and cable products are widely used in many different application, such as Computing, Industrial & Automation, Telecommunication, Automotive, Waterproof, Consumer and Medical Industry.

Chant Sincere won the "National Bedrock Award" & "Small Giant Award" from Taiwan Connector maker competition and got many "Best Supplier awards" from Global customers. We are focusing on improving our design and manufacture technology, and we have been applying for a lot of international patents for our products including I/O connector, Board to Board connector, Waterproof connector, Industrial Connector, Automotive connector, Memory Card connector and adaptor, High Speed connector/cable (USB3.1), Audio & Vidio connector and cable (HDMI, Display Port)...etc.

Chant Sincere Co., Ltd. Has been growing up as a global professional manufacturer for connector and cable.

The Core Competence of Chant Sincere Co., Ltd. including.

- Over 36 Years Manufacture Experience
- ODM/OEM Capability
- Vertical Integration (Design, Tooling, Manufacturing, Test)
- Automation Capability
- Precise Tooling Center
- Wide Range of Product Line
- Systematic Testing Process
- Customized Capability
- Quality System (ISO,IATF)
- National Awards Rising Sun Awards/Best Supplier Awards









Quality systems

COXOC Quality Assurance department meets our customers' quality requirements by practicing continual improvement in our quality assurance processes and increasing customers' satisfaction in the quality of our products.

The effectiveness of COXOC QA operation is certified by well-known organizations such as ISO9001 Quality Assurance Management System, ISO 14001 Environmental Management System, ISO/IATF 16949 for Automobile Industry Quality Management System, and ISO13485 Medical Devices Quality Management System, COXOC integrated supply chain and devoted staff has enabled us to build a solid foundation and core capability to better serve our customers. It is COXOC principal to always meet and exceed customer expectation by providing superior products and services. COXOC ultimate goal is to create value for our customers by building collaborative and mutually beneficial relationships.

Competencies & Technology

The R&D Center at Chant Sincere leads the industry in research, design, and manufacturing of numerous key parts. This center has successfully developed for both wired and wireless solutions for computer peripherals, communication systems, and automobiles/industrial/medical equipment. Our solid R&D team formed a strong foundation in advance manufacturing technology and superior quality control that also enabled high value adding service for customers.

USB type C connectors is an example of the fruits of our research. This miniature and unidirectional interface provides many useful functions such as lighting data transfer rate up to 10 Gbits/s, DP ALT Mode high-definition video signal support, and brilliant 100W charging capability. Chant Sincere advanced the research further into higher specs such as USB 3.2 and USB 4.0 and offers customized solution for various of industrial applications. We delivered comprehensive solutions in bridging the diverse need for new interface and solve on-going product design issues for customers.

QSFP-DD is an ultra-fast interface that transmit data at 400Gbps speed. At this speed, stringent requirement for signal integrity and operating temperature is inviable which imposed huge challenges for the industry. At Chant Sincere, we implemented comprehensive computational software, state of art measuring equipment and eminent R&D capability to aid the solution delivering process. The analysis process includes simulation under CST MSW (Time Domain Simulation), ANSYS HFSS (Frequency Domain Simulation) for signal integrity as well as real-time measurement using test boards and PNA (up to 43.5GHz) to deliver quality reports for signal integrity (S-parameter, Gain compression, conversion gain/loss, noise level). We further performed simulation of its operating temperature using Icepak (Heat transfer and fluid flow simulator). This enabled the performance optimization for heat dissipation solution. With the above R&D skills we successfully delivered the desired professional service within the shortest time frame for our customers.



SFP/QSFP



SFP Application

 The small form-factor pluggable (SFP) is a compact, hot-pluggable network interface module used for both telecommunication and data communications applications. The form factor and electrical interface are specified by a multi-source agreement (MSA) under the auspices of the Small Form Factor Committee.[1] It is a popular industry format jointly developed and supported by many network component vendors.

Application

- Sever
- Switch
- Storage
- Router

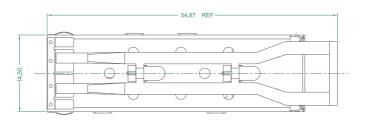
Product Characteristics

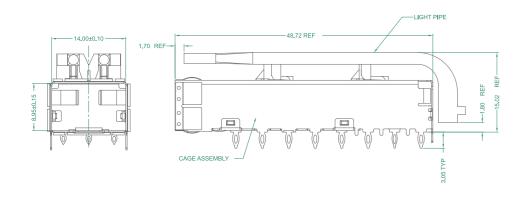
- SFPs instead of fixed interfaces (e.g. modular connectors in Ethernet switches) are that the interface port can be equipped with any suitable type of transceiver as needed.
- Supporting SONET, Gigabit Ethernet, Fibre Channel, PON, and other communications standards.
- A slightly larger sibling is the four-lane Quad Small Form-factor Pluggable (QSFP).
 The additional lanes allow for speeds 4 times their corresponding SFP.
 The QSFP28 variant was published allowing speeds up to 100 Gbit/s.
- SFP Types- 1 Gbit/s SFP, 10 Gbit/s SFP+, 25 Gbit/s SFP28.
- QSFP types- 4 Gbit/s QSFP, 40 Gbit/s QSFP+, 100 Gbit/s QSFP28.

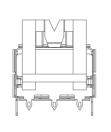




Drawing







Specification -

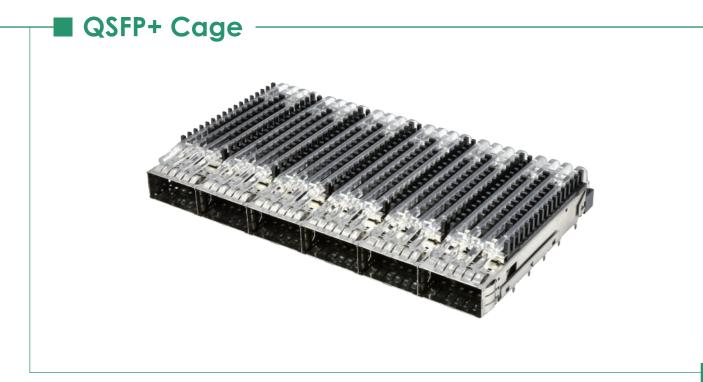
Description	SFP+ Cage, 1X1, PressFit, EMI Spring, with Light Pipe			
Part no.	902GEA1P01C2N0A0			
	Cage Assembly	Copper Alloy.		
Material	EMI Springs	Copper Alloy.		
	Light Pipe	PC, Clear.		
	Cage Assembly	Nickel Plated.		
	Mates With SFP MSA Compliant Transceivers.			
	Minimum PC Board Thickness	Single Sided =1.50mm		
Finsh	Operating Temperature	-55°C To +85°C		
	Litht Pipe Shipped Unassembled To Cage Assembly.			
	Cage Assembly To Be Pressed Into The PCB Prior To Attaching The Light Pipe To The Cage.			
		on Of Hazardous Substances In Electrical nent (Rohs) Directive (2011/65/Eu).		

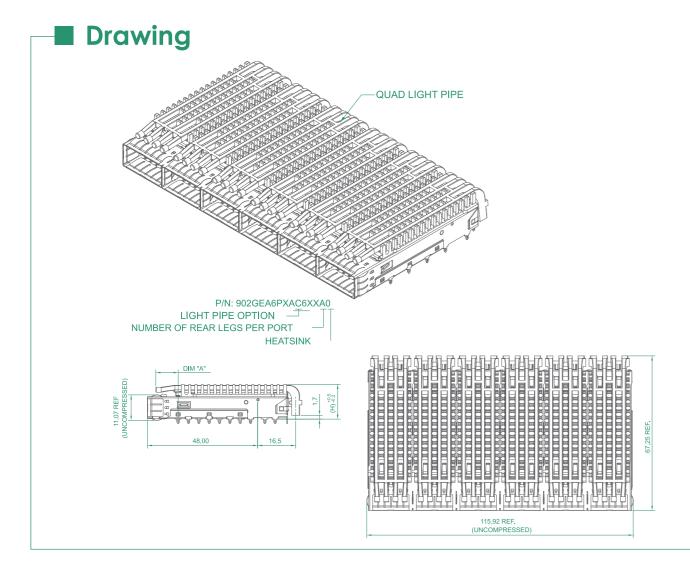
SFP Cage -

Photo	Port no.	Part no.	Туре
	1X1	902AEA1S00C100A0	
1X1 Solder Type	1X2	902AEA2P00C100A0	Solder
Men.	1X4	902AEA4P00C100A0	Solder
1X4 Solder Type	1X6	902AEA6P00C100A0	
	1X1	902GEA1SF0C100A0	
1X1 PressFit	1X2	902GEA2P00C100A0	PressFit
	1X4	902GEA4P00C100A0	
1X2 PressFit	1X6	902GEA6S00C100A0	

■ SFP+ Cage -

Photo	Port no.	Part no.	Туре
	1X1	902AE11SK0C200C0	
Heat Sink, EMI Spring	1X2	902AEA2P00C2A0A0	Coldon
EMI Spring	1X4	902AEA4P00C200A0	Solder
Light Pipe, EMI Gasket	1X6	902AEA6P00C2A0A0	
	1X1	902GEA1SF0C100A0	
Light Pipe, EMI Spring	1X2	902GEA2P00C100A0	PressFit
EMI Spring	1X4	902GEA4P00C100A0	1 16331 11
1X6 PressFit	1X6	902GEA6S00C100A0	





Specification

Description	QSFP+ Cage, 1X6, Through Bezel, Quad Light Pipe, PCI Heat Sink		
Part no.	9020	GEA6PXXC61XA0	
	Cage Up	Stainless Steel, 0.25 Thickness	
	Cage Down	Stainless Steel, 0.25 Thickness	
	Partition	Stainless Steel	
Material	Emi Fingers	Stainless Steel	
	Heatsink	Aluminum	
	Heatsink Clip	Stainless Steel	
	Light Pipe Materia	Clear Polycarbonate	
	Body Cage	Cleaning	
	Emi Spring Finish	Cleaning And Hole Sealing	
Finale	Heatsink Finish	Black Anodized	
Finsh	Heatsink Clip Finish	Cleaning	
	Mate With Qsfp Msa Compatible Transceiver.		
	Inside Surface Of 0	Casket When Fully Compressed.	

■ QSFP+ Cage -

Photo	Port no.	Part no.	Туре
PCI Heat Sink	1X1	902GEA1PXXC40XA0	
SAN Heat Sink, Single Light Pipe, Bezel	1X2	902GEA2PXXC46XAD	
Networking Heat Sink, Bezel	1X3	902GEA3PXXC46XA0	PressFit
PCI Heat Sink, Double Light Pipe, Gasket	1X4	902GEA4PXXC46XA0	
Networking Heat Sink, Single Light Pipe, Bezel	1X6	902GEA6PXXC46XA0	

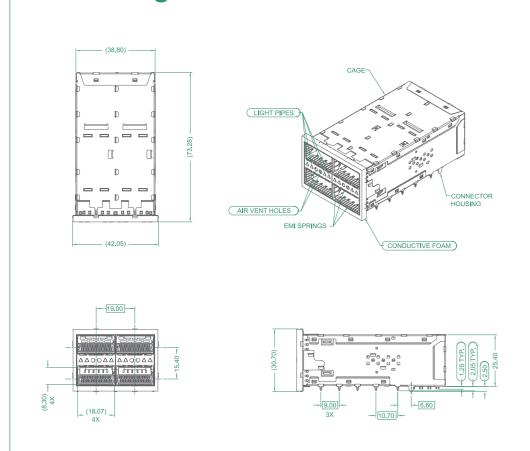
■ QSFP+ 28 Cage

Photo	Port no.	Part no.	Туре
Single Light Pipe, Open Top, Bezel	1X1	902GGA1P5BC641A0	
Double Light Pipe, Networking Heat Sink,	1X2	902GEA2P7XC61XA0	
Quad Light Pipe, PCI Heat Sink	1X3	902GEA3P7XC61XA0	PressFit
Open Top, Bezel Open Top, PCI Heat Sink, Double Light Pipe, Gasket	1X4	902GEA4PCAC61XA0	

QSFP Assembly -



Drawing



Specification

Description	QSFP Assembly, 2X2, Light Pipe, Conductive Foam	
Part no.	902GHB2XXTA4DXA3	
	Cage	Stainless Steel.
	EMI Springs	Stainless Steel.
Material	Elastomeric Gasket	Conductive Foam.
ivialeriai	Connector Housing	High Temperature Thermoplastic, Ul94v-0, Color : Black.
	Contacts	Copper Alloy.
	Light Pipe	Polycarbonate, Clear.
	Contacts	Gold Plated On Contact Area; Matte Tin Plated On Tail Area.
Finsh		Of Hazardous Substances In Electrical And nt (Rohs) Directive (2011/65/Eu).

■ SFP Assembly —

Photo	Port no.	Part no.	Туре
	2X1	902GHB1BCTAA01A3	
2X1, w/o Light Pipe	2X2	902GHB2BCTAA01A3	
	2X4	902GHB4BCTAA01A3	PressFit
2X2, Light Pipe	2X6	902GHB6BCTAA01A3	
	2X8	902GHB8BCTAA01A3	

■ SFP+ Assembly —

Photo	Port no.	Part no.	Туре
2Y4 w/a Light Pina	2X1	902GHB1BCTA203A3	
2X4, w/o Light Pipe			
	2X2	902GHB2BCTA201A3	PressFit
	2X4	902GHB4BCTA201A3	
2X2, Light Pipe, EMI Gasket	2X6	902GHB6BCTA201A3	
	2X8	902GHB8BCTA201A3	

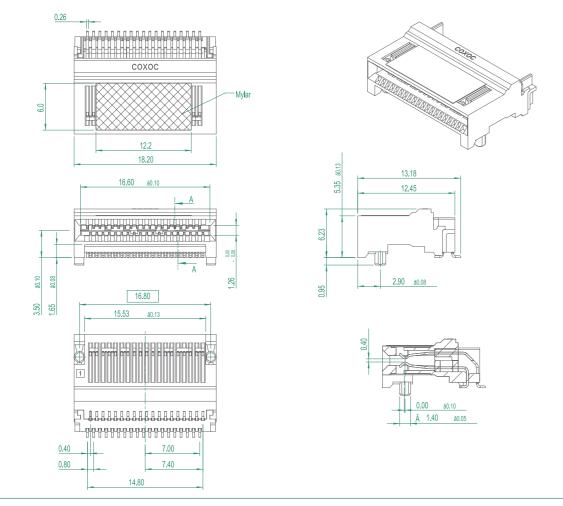
QSFP+ Assembly -

Photo	Port no.	Part no.	Туре
	2X1	902GHB1BXTA4TXA3	
2X2, Light Pipe	2X2	902GHB2BXTA4TXA3	PressFit
2X2, Light Pipe, Conductive Foam	2X3	902GHB3BXTA4TXA3	





Drawing



Specification

Description	QSFP+28G Connector		
Part no.	902DH38BXT0601CX		
	Insulator	Thermoplastic, Rated Ul94v-0	
Material	Contact	Copper Alloy	
	Cover	Thermoplastic, Rated UI94v-0	
	Underplate	50u"~100u" Nickel	
Contact Plating	Contact Area	Selective Gold	
	Solder Tails Area	100u"~200u" Tin (Lead Free)	
	Current Rating	0.5 A Per Contact	
	Rated Voltage	30 Vdc Per Contact	
Electrical	Insulation Resistance	1000 Megaohms Minimum	
	Dielectric Withstanding Voltage	300 Vdc For 1 Minute	
	Storage Temperature	-20°C To +85°C	

■ SFP/QSFP Connector

Photo	Description	Part no.
	SFP + 28G Connector Positions: 20	902DH20BXT0701CX
	QSFP Connector Positions: 38	902DH38BXT0400C3
	QSFP + 28G Conn. Positions: 38	902DH38BXT0601CX





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