



CHANT SINCERE CO., LTD.



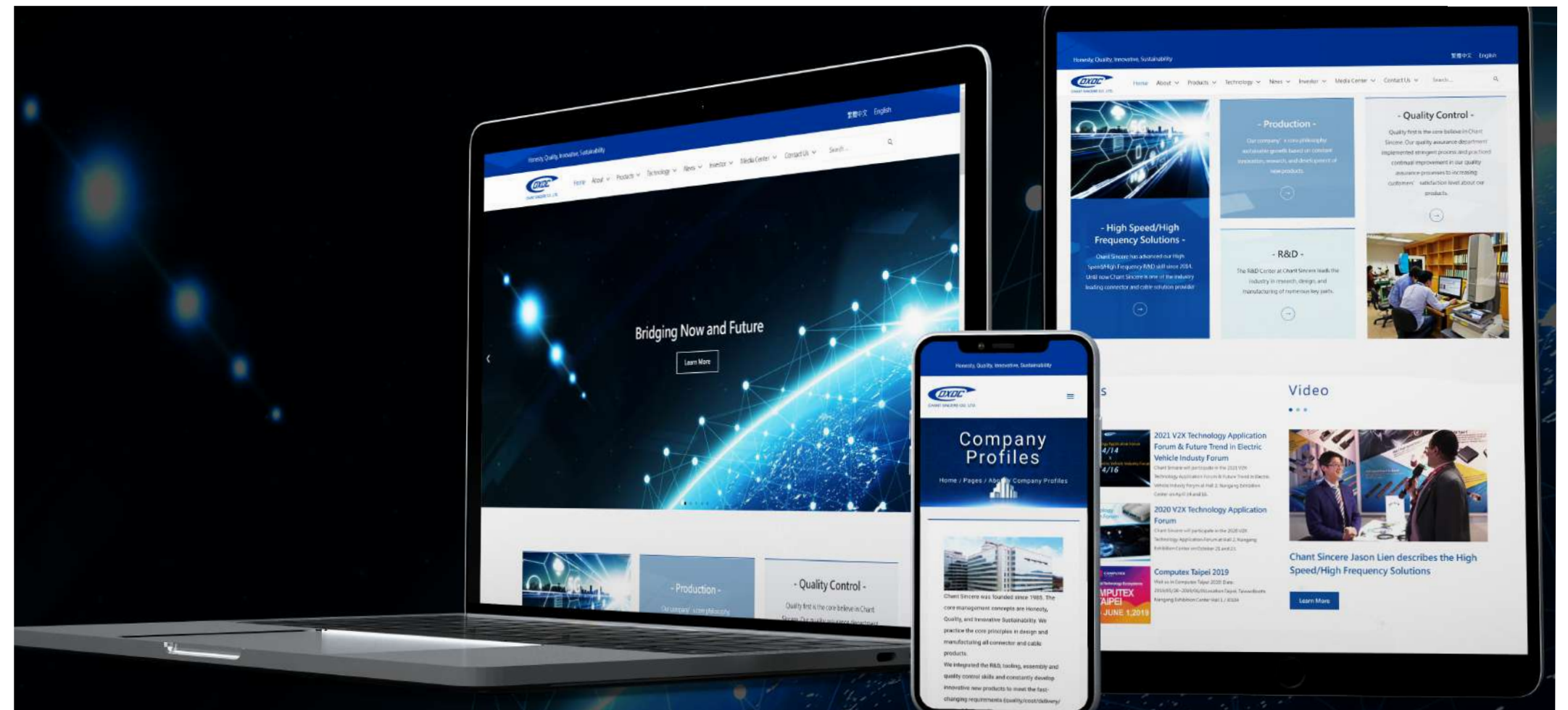
Consumer Electronics

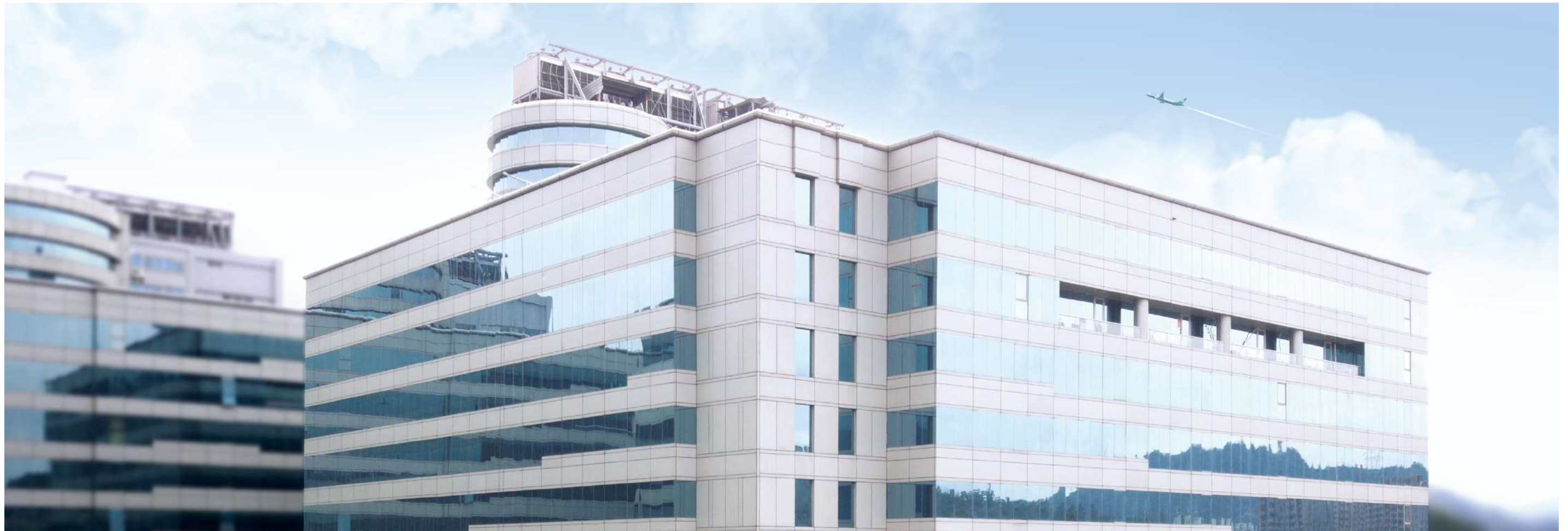
▾ SD Card



Table Of Contents

About Chant Sincere	03
Quality Systems	05
Competencies & Technology	07
SD Card Series	09
SD 3.0	11
SD 7.0	13
Micro SD 4.0	15
Micro SD 4.0 to SD Adapter	17





About Chant Sincere

Chant Sincere Co., Ltd. was set up in 1985, with the management concept of "Integrity, Innovative, Quality, Sustainability" 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 several of product families to provide a total solution to customers.

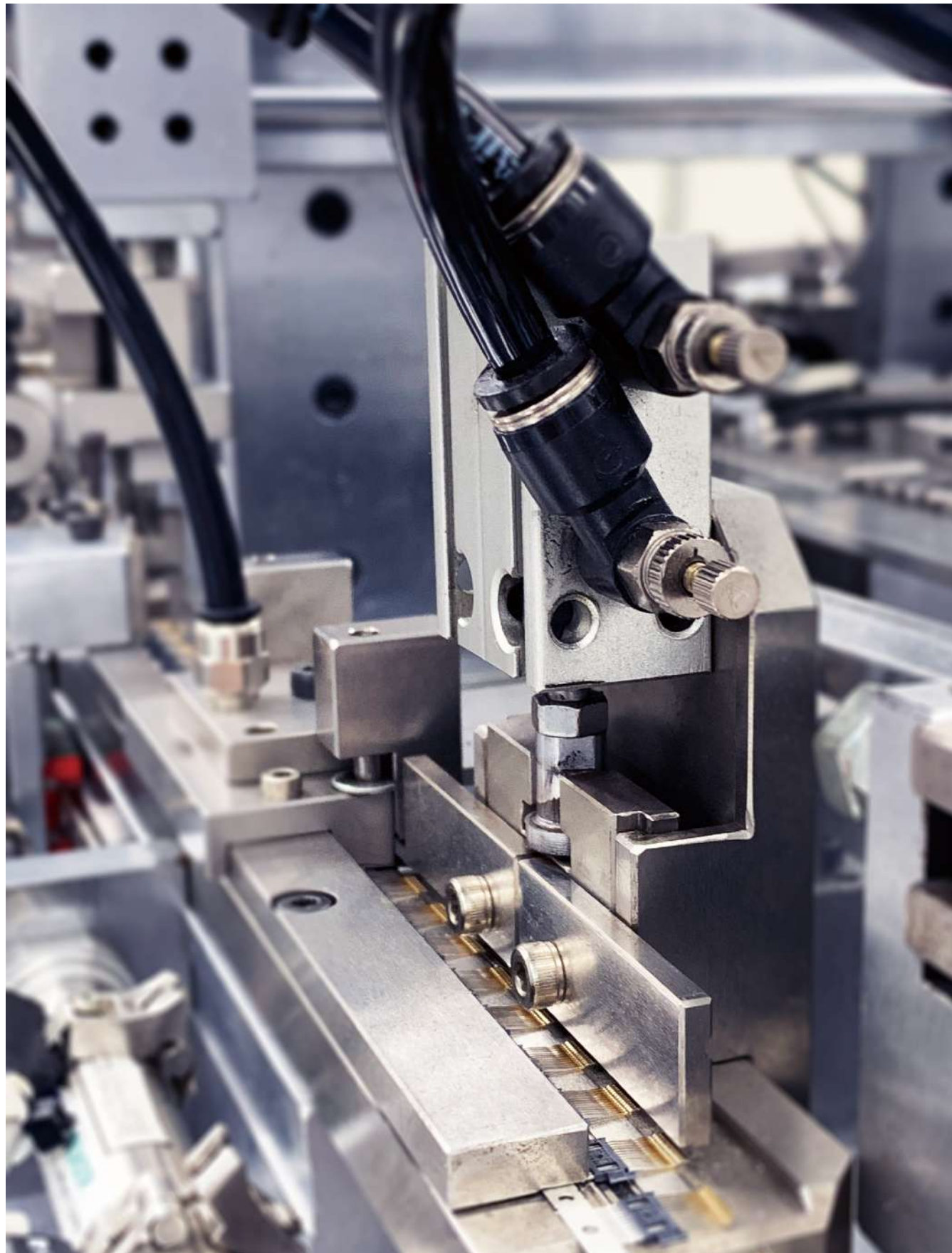
The connector and cable products are widely used in many different applications, such as Computing, Industrial & Automation, Telecommunication, Automotive, Waterproof, Consumer and Medical Industry.

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 & Video connector and cable (HDMI, DisplayPort)...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 40 Years Manufacture Experience
- National Awards Rising Sun Awards/Best Supplier Awards
- Vertical Integration (Design, Tooling, Manufacturing, Test)
- Automation Capability
- Precise Tooling Center
- Wide Range of Product Line
- ODM/OEM Capability
- Customized Capability
- Quality System (ISO, IATF)
- Systematic Testing Process



Quality Systems

Chant Sincere (hereinafter referred to as C.S.) 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 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. C.S. integrated supply chain and devoted staff has enabled us to build a solid foundation and core capability to better serve our customers. It is principal to always meet and exceed customer expectation by providing superior products and services. Our ultimate goal is to create value for our customers by building collaborative and mutually beneficial relationships.



ISO 14064-1 / ISO 9001 / ISO 14001 / IATF 16949 / ISO 13485



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 connector 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 Gbps, 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 several 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 transmits data at 400Gbps speed.

At this speed, stringent requirement for signal integrity and operating temperature is inevitable 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.



SD Card

SD Card Application

Secure Digital, officially abbreviated as SD, is a proprietary non-volatile memory card format developed by the SD Card Association (SDA) for use in portable devices. The standard was introduced in August 1999 by joint efforts between SanDisk, Panasonic (Matsushita Electric) and Toshiba as an improvement over Multimedia Cards (MMC), and has become the industry standard. The three companies formed SD-3C, LLC, a company that licenses and enforces intellectual property rights associated with SD Memory Cards and SD host and ancillary products.

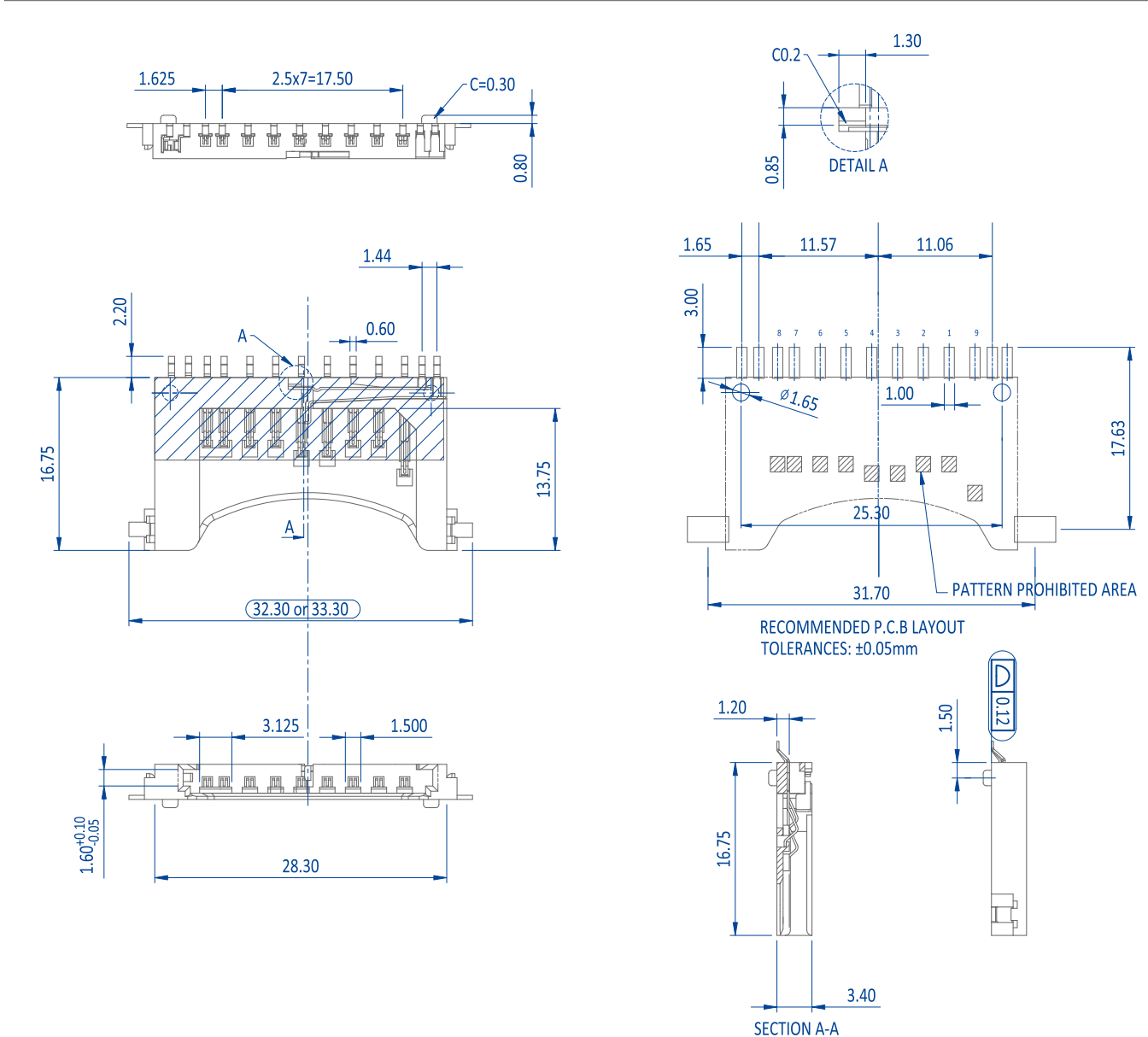
Application

- Portable Devices

Product Characteristics

- The SD card's small footprint is an ideal storage medium for smaller, thinner and more portable electronic devices.
Secure Digital includes five card families available in three different sizes. The five families are the original Standard-Capacity (SDSC), the High-Capacity (SDHC), the eXtended-Capacity (SDXC), the Ultra-Capacity (SDUC) and the SDIO, which combines input/output functions with data storage.
- Comparison of SD card capacity standards, SD-Min. 128MiB/Max. 2GiB, SDHC-Min. 2GiB/Max. 32GiB, SDXC-Min. 32GiB/Max. 2TiB, SDUC-Min. 2TiB/Max. 128TiB.
- UHS-I- Specified in SD version 3.01 which could transfer 104 MB/s.
UHS-II- Specified in version 4.0, further raises the data transfer rate to a theoretical maximum of 156 MB/s (full-duplex) or 312 MB/s (half-duplex) using an additional row of pins.
UHS-III- Version 6.0, released in February 2017, added two new data rates to the standard. FD312 provides 312 MB/s while FD624 doubles that. Both are full-duplex.
The physical interface and pin-layout are the same as with UHS-II, retaining backward compatibility.

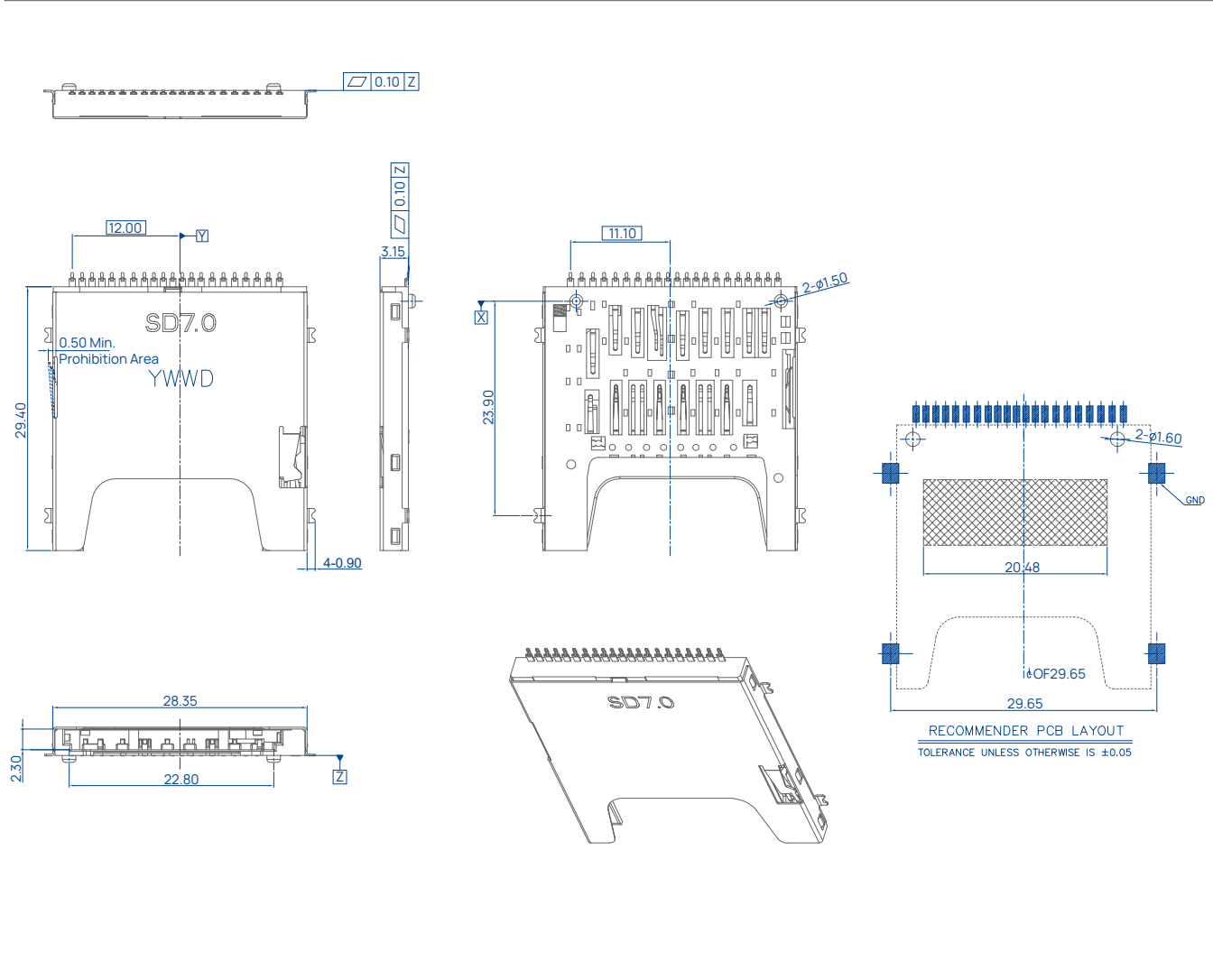
SD 3.0



Specification

Part No.	5732101XXXX
Contact	9
Material	
Insulator	Thermal Plastic UL94V-0
Contact	Copper Alloy
Board Lock	Copper Alloy
Contact Plating	
Under Plate	50u" ~ 100u" Nickel
Contact Area	1u" ~ 30u" Selective Gold
Solder Tails Area	100u"~200u" Tin/Lead or 100u"~200u" Tin(Lead Free)
Electrical	
Current Rating	1 Amps Max.
Contact Resistance	100 Mohms Max.
Insulation Resistance	1000 Mohms Min.
Mechanical	
Mating Cycles	10000 Cycles Minute
Operating Temperature	-40°C to +85°C

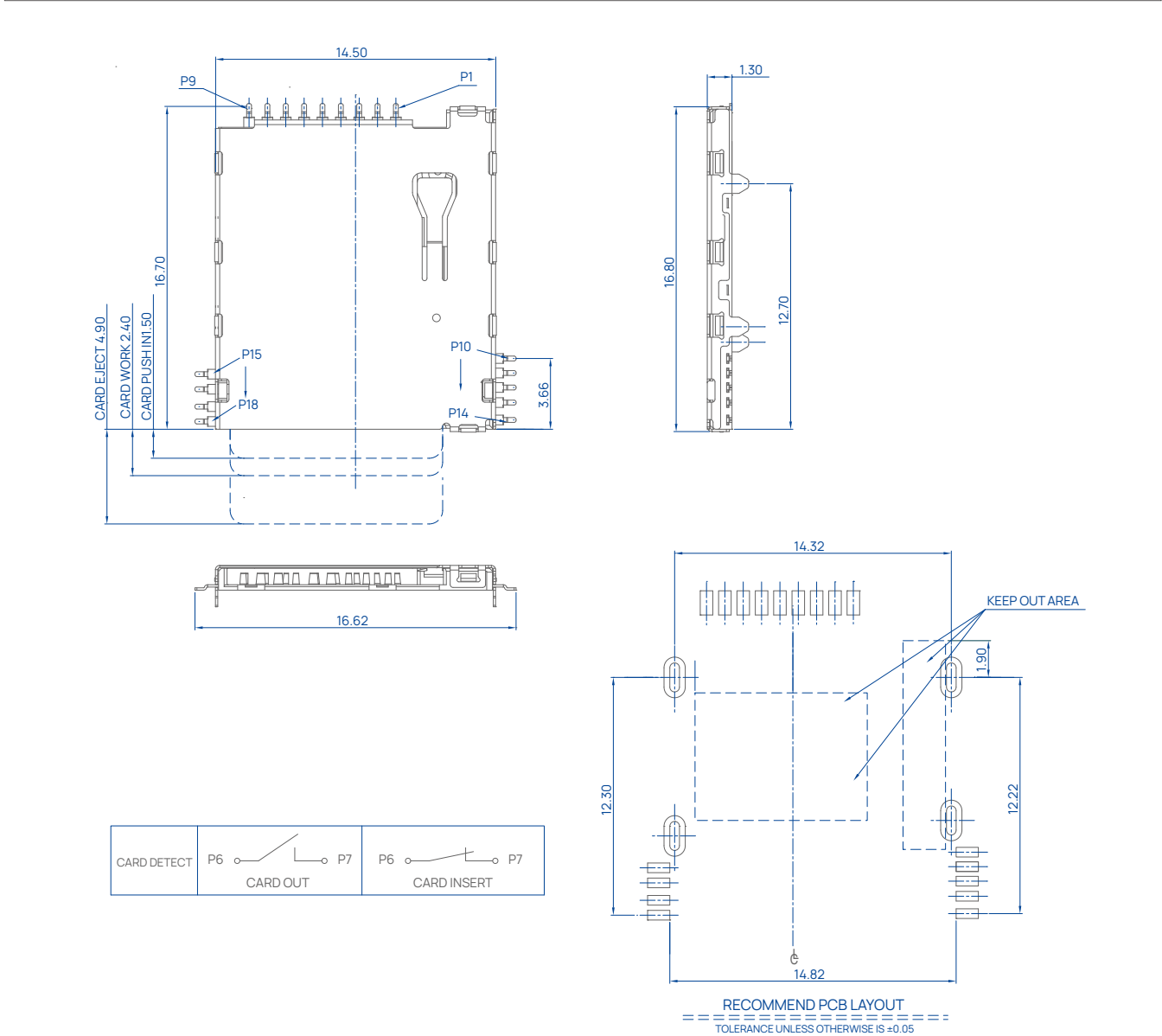
SD 7.0



Specification

Part No.	5731101XXXX
Contact	19
Material	
Insulator	Thermal Plastic UL94V-0
Contact	Copper Alloy
Shell	Stainless Steel
Contact Plating	
Under Plate	Nickel 50u" Min
Contact Area	1u" Selective Gold
Solder Tails Area	Tin 100u" Min
Electrical	
Current Rating	1.0 A
Contact Resistance	100 Mohms Max.
Insulation Resistance	1000M ohms min. at 250VDC
Mechanical	
Mating Cycles	5000 Cycles Minute
Operating Temperature	-40°C to +85°C

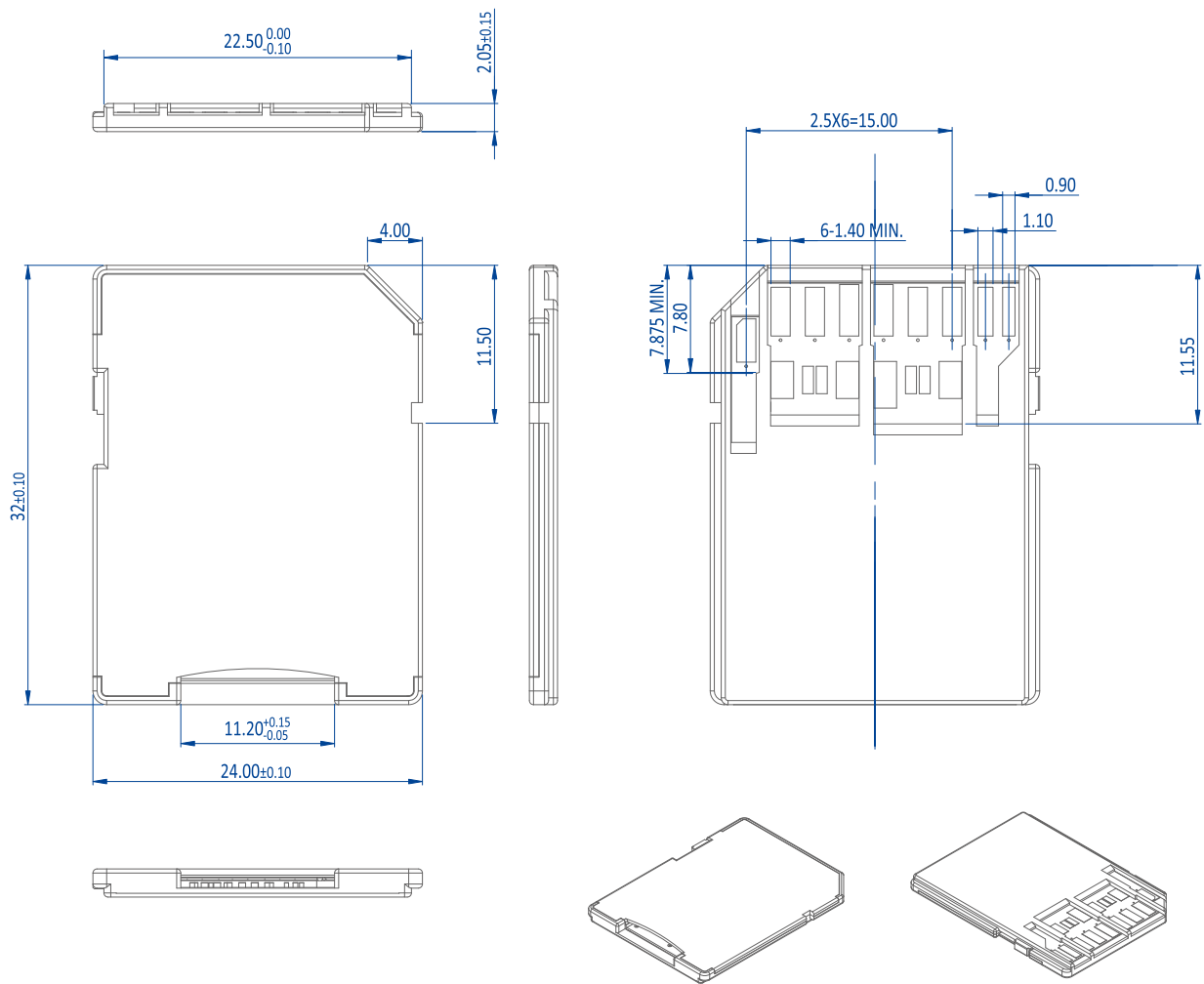
Micro SD 4.0



Specification

Part No.	5731001XXXX
Contact	18
Material	
Insulator	Thermal Plastic, Rated UL94V-0
Contact	Phosphor Copper
Shell	Stainless Steel
Contact Plating	
Under Plate	50u" ~ 100u" Nickel
Contact Area	Gold Flash
Solder Tails Area	100u" ~ 200u" Tin
Electrical	
Operation Voltage	10 V
Current Rating	0.5A Min.
Contact Resistance	100 Mohms
Insulation Resistance	1000 Mohms
Dielectric Withstanding Voltage	500V AC/Minute
Mating Cycles	3000 Insertions




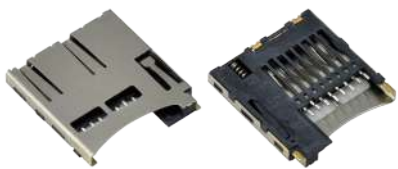
Micro SD 4.0 to SD Adapter



Specification

Part No.	7616101XXXX
Contact	16
Material	
Insulator	Thermal Plastic, Rated UL94V-0
Contact	Phosphor Copper
Under Plate	50u" ~ 150u" Nickel
Gold Finger Plating	
Contact Area	3u" Gold
Current Rating	0.5 Amps Max.
Insulation Resistance	1000 Mohms Min @500 VDC
Electrical	
Dielectric Withstanding Voltage	500 VAC / Minute
Operating Temperature Range	-25°C to +85°C
Mating Cycles	10,000 Insertions

SD Card

Application Type	Description	Part No.
	<ul style="list-style-type: none">• Standard• Non Push• SD 3.0• SMT	57321010010
	<ul style="list-style-type: none">• Bottom Mount• Non Push• SD 4.0• SMT	57304010010
	<ul style="list-style-type: none">• Bottom Mount• Push Push• SD 4.0• SMT	57302010010
	<ul style="list-style-type: none">• Normal Type• Push Push• Micro SD• SMT	57329010010

SD Card

Application Type	Description	Part No.
	<ul style="list-style-type: none">• UHS-II• Micro SD 4.0• SMT	57309010010
	<ul style="list-style-type: none">• UHS-II Push• Micro SD 4.0• SMT	57310010010
	<ul style="list-style-type: none">• TransFlash Adapter• TransFlash to SD Adapter	76161020010
	<ul style="list-style-type: none">• UHS-II• Mirco SD 4.0 Adapter• Micro SD 4.0 to SD 4.0 Adapter	76161010010
	<ul style="list-style-type: none">• Top Mount• Push Push• SD 7.0• SMT	5731101XXXX
	<ul style="list-style-type: none">• Top Mount• No Push• SD 7.0• SMT	5731201XXXX



 **CHANT SINCERE CO., LTD.**

7F-2, No 188, Sec. 3, Datong Road
Xizhi, New Taipei City 22103, Taiwan

 www.coxoc.com.tw

 +886-2-8647-1251

 service@coxoc.com.tw



www.coxoc.com.tw/en