Embedded Projected Capacitive Touch Solution



From Technology to the Application

Projected Capacitive Technology has evolved since its first introduction to the consumer market in 2007. It is the best adapting touch technology to bring constant evolution to your application in today's ever-changing market. Projected Capacitive Technology is constantly progressing to achieve market needs. Hence "projected" in its name, Projected Capacitive Technology is always advancing to meet future needs.

The 3 fundamentals of Rocktouch:

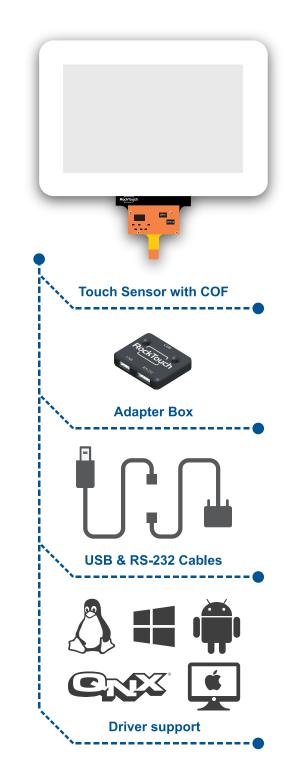
- High quality and stable film/film sensor technology
- Evolving firmware algorithm to bring exciting performance
- Cover glass customization to fulfill customer's design requirement

Due to its high quality touch precision technology, Projected Capacitive is a technology very sensitive to its environment. However, with its Rocktouch patented embedded design, the technology retains its stability. To deliver customer requested performances, Rocktouch assists its customers with firmware customization for their application.

For fast prototyping and easy integration, Rocktouch's customers are given the option to choose various standard cover glasses from Rocktouch and purchase an accessory kit to apply to their application.

For customization of cover lens, Rocktouch's customers are able to choose from various types of glasses with different printing technologies. An option of special surface treatment is also provided to improve optical performance.

Thanks to Rocktouch's mother company FutureLabs, the company provides its customers a solution based on the integration of TFT LCD display with air bonding or liquid bonding technology.







Embedded COF & Custom FW will deliver the desire performance into customer application







Home Appliance



Vending



Outdoor



Marine

Standard Product Available

Developed with scalable concept, customers can choose different sizes from different product lines while having the mechanical design remain the same. Rocktouch has implemented the Embedded motherboard form factor concept into a touch screen product

Size Available	LCD Display Resolution Match	Standard Cover Glass Thickness	Standard Cover Glass Type	Interface Available	Controller Design	Controller Pinout	Line Available	Fingers Number	Accessories
7"W	800x480, 1024x600	0.7 mm 3 mm	Transparent Black-White	I2C/USB	Embedded COF	6 pin 0.5 mm pitch	Н	up to 10	Cables
8.4"	800x600, 1024x768	1.1 mm 1.8 mm	Transparent Black	I2C/USB	Embedded COF	6 pin 0.5 mm pitch	S	up to 10	Cables
10.1"W	1024x600, 1280x800	1.1 mm 3/6 mm	Transp-Black Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
10.4"	640x480, 800x600, 1024x768	1.1 mm 3/6 mm	Transparent Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
12.1"	800x600, 1024x768	1.1 mm 3/6 mm	Transparent Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
12.1"W	1280×800	1.1 mm 3/6 mm	Transparent Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
15.0"	1024x768	1.1 mm 3/6 mm	Transparent Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
15.6"W	1366x768, 1920x1080	1.1 mm 3/6 mm	Transparent Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
17.0"	1280x1024	1.8 mm 3/6 mm	Transparent Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
18.5"W	1366x768, 1920x1080	1.8 mm 3/6 mm	Transp-Black Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
19.0"	1280x1024	1.8 mm 3/6 mm	Transparent Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
21.5"W	1920x1080	1.8 mm 3/6 mm	Transparent Black-White	I2C/USB/RS-232	Embedded COF	6 pin 1 mm pitch	X/H/R	up to 10	Adapter Box & Cables
31.5"W	1366x768, 1920x1080, 4K2K	1.8mm	Transparent	USB/RS-232	External controller	External controller	S	up to 10	Cables

Products line and features

Using the same mechanical concept design, we introduced different product lines to fulfill different application requirements. Choose the best line for your product

Features/ Product Line	Sensor Design	Fingers number	Glass thickness (mm)	Freq Hopping	SNR	Water Rejection	Full Water	Medical Gloves	Industrial Gloves	Palm Rejection	Light Frequency Cutting	Passive Pen	Pencil	Active Pen	Air Gap
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X Line	Slim border	10	8	Yes	High	Yes	No	Yes	Yes	Yes	Yes	Yes	Available	No	Available
H Line	Slim border	10	8	Yes	Medium	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Available	Yes	No
R Line	Slim border	10	8	Yes	High	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
S Line	Slim border	10	20	Yes	Medium	Yes	Available	Yes	Available	Available	Yes	Yes	No	No	Yes

^{*} Specifications are subjective to change without notice, Rocktouch is registered trademark, other brands and products names are trademarks or registered trademarks of their respective holder

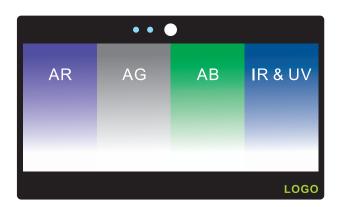
Custom Cover Lens Solution

Most Industrial applications have a dull and mundane design, but today with PCAP technology we are able to bring life to Industrial application designs, making your machine more eye catching while increasing its durability.

With Rocktouch's collaboration with Top Tier Glass and PC/PMMA Manufactures, Rocktouch provides its customers with a wide choice of cover lens designs.

Design options are as follows:

- From thin to very thick
- From chemically strengthened to fully tempered technology
- The choice of gorilla glass or dragon tail glass
- Different printing type options
- Different transparent level for logos or buttons
- Advanced border cut
- Transparent & Semi transparent hole options
- Trough hole cut with different shapes
- Surface treatment available: AR, AG, AF, AB, IR and UV cut
- Privacy filter option available.



A Solar Radiation Proof Touch Sensor

Thanks to a special material, Rocktouch Touch Sensor is able to fulfill the most strict solar radiation test for outdoor application.

Possible Design Choice

For maximum flexibility, customers are given a few choices to have the best Projected Capacitive solution.

With the Company's Patented Embedded Scalable Design, three options are available:

Solutions/ Options	1 Standard Product	2 Customized Cover Lens	3 Fully Customized		
Tooling Investment	No Tooling	Cover Lens Tooling	Full Tooling		
Size	From 7"W up to 31.5"W	From 7"W up to 31.5"W	from 3.5" up to 31.5"W		
Film	Rocktouch Design	Rocktouch Design	Customized Design		
Glass Thickness	0.7/1.1/1.8/3/6 mm	Your choice	Your choice		
Cover Lens Color	Transparent, Black, White	Any color	Any color		
Controller	Rocktouch Embedded COF	Rocktouch Embedded COF	Embedded COF or External controller		

The most widely chosen option is the second option, it provides the following advantages:

- Low tooling cost
- Fast time delivery to market
- Easy design integration for different sizes

High End Manufacturing Certifications

Rocktouch offers competitive solution to its customers, enforcing strict manufacturing processing standards.

Rocktouch manufacturing plant has received different certifications for:

- TS16949 for Automotive solution
- ISO13458 for Medical solution
- AS9100 for Avionics solution

If your product require a special manufacturing process, contact us and we will follow up on your request.

PushTouch Technology (PT)

Rocktouch is actively developing a new technology similar to Force Touch technology used in consumer device, but is applied and developed specifically for the industrial market. This Technology is called PushTouch and will allow the user to press the Projective Capacitive touch and have the system able to determine a pressure or a change in pressure force applied to the sensor.

Please keep in contact with our Team for additional technical information and explanation.

Rocktouch the Water and Solar Proof Projected Capacitive Touch

