

Mobile Touch

maXTouch® U Series Touchscreen Controllers

Experience Touch Like
Never Before



Solomon Systech's maXTouch® U Series – the newest additions to our capacitive touchscreen controller family – puts the industry's leading capacitive touchscreen technology in the hands of mobile device engineers. These revolutionary controllers enable mobile OEMs to implement the superior touchscreen experience that consumers demand.

The maXTouch® U Series architecture combines the best of mutual- and self-capacitance to ensure optimal touch performance with the highest noise immunity and lowest power consumption. This unique touchscreen controller technology, with its intelligent touch processing algorithms, unparalleled noise suppression, high responsiveness and pinpoint precision, helps you create what you have always imagined.

Applications: Smartphones, Wearables, Gaming Devices, Phablets, Tablets, Ultrabooks, Notebooks, All-In-One PCs, Digital Still Cameras, e-Readers, GPS Systems, Portable Media Players

Features

Edge Keys

- Enabling new UI possibilities for one handed usage and improving camera functionality - replacing mechanical keys at the side of the smartphone.

maXForce

- Adding the 3rd dimension to touch sensing by enabling new UI possibilities for zooming, gaming and editing through multi-levels of force sensing.

Ultra-Efficient

- Optimized die and ultra-low power technology ideal for mobile devices.

Support Next Generation OLED

- Hi-Load drive capability for flexible and foldable displays.

Moisture and Water Droplet Touch Support

- Robust moisture touch and recalibration capabilities. No false touches or screen lock-up issues even using a mobile device in moist or rainy conditions.
- Capable of tracking 2 fingers to enhance pinching & zooming maps or camera mode.

Finger Tracking Hover

- Support up to 25mm finger tracking performance.

“Any Pen” –Passive Stylus Support

- Superior Signal-to-Noise Ratio (SNR) enables very sensitive touch inputs (~1.0mm passive stylus).
- Allow users to interact with the device using virtually any conductive device, such as an HB pencil, ballpoint pen, spoon—or even a fingernail.

Glove Touch Support

- Support multi-finger glove touches.

Integrated Capacitive Buttons

- Peripheral Touch Controller (PTC) embedded to support dedicated hardware IP for outside-screen touch buttons (up to 10 channels of buttons, sliders and wheels).



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Features

Superior Noise Immunity

- Advanced Analog Front End (AFE) system combining integrated charge pump for high-voltage transmission lines and advanced frequency hopping intelligence to enable unparalleled signal clarity.
- Allows the touchscreen system to perform consistently and reliably under a variety of noisy conditions, such as with low-quality chargers and ambient signal interferences.

Shorter Design Cycle

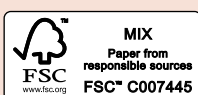
- Shipped pre-loaded with touch firmware to avoid expensive and time-consuming step of programming the firmware during mass production.
- A small, simple configuration file for easy loading during the device's startup process.

Selection Guide

Part Number	Channel Count	Passive Stylus	Finger Hover	Water/Moisture	Glove Touch	High Voltage	Cap Buttons	Force Sensor	Package
mXT874U	38X / 23Y	1.0mm / 7"	20mm	2-finger	5mm	14.5V	10-ch PTC	Cap, R	6 x 6 x 0.6 BGA-115
mXT748U	34X / 22Y	2.5mm / 6.2"	N / A	2-finger	5mm	9.9V	3-Gkeys	SG, Cap, R	6 x 6 x 0.6 6 x 6 x 0.45 BGA-102
mXT640U	32X / 20Y	2.0mm / 5.6"	18mm	2-finger	5mm	9.9V	3-Gkeys	Cap, R	6 x 6 x 0.6 6 x 6 x 0.45 BGA-88
mXT336U	14X / 24Y	2.5mm / 4.3"	N / A	1-finger	2mm	6.6V	3-Gkeys	SG, Cap, R	6 x 6 x 0.4 QFN
mXT308U	14X / 22Y	N / A	N / A	1-finger	2mm	6.6V	3-Gkeys	SG, Cap, R	6 x 6 x 0.4 QFN-56 5 x 5 x 0.4 QFN-52
mXT144U	12X / 12Y	N / A	N / A	1-finger	2mm	3.3V	X / Y-ch	SG, Cap, R	4 x 4 x 0.4 QFN-38 2.5 x 2.5 CSP

Solomon Systech Limited

Solomon Systech Limited is a leading semiconductor company providing display IC products and system solutions that enable a wide range of display and touch applications for smartphones, tablets, TVs/monitors, notebooks and other smart devices, including wearables, healthcare devices, smart home devices, as well as industrial appliances, etc. Solomon Systech (International) Limited's shares have been listed on the main board of the Stock Exchange of Hong Kong Limited since April 8th, 2004 (stock code: 2878). More information about the Group, its products and services may be obtained at <http://www.solomon-systech.com/>.



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