

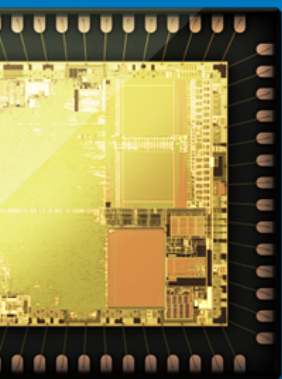


Atmel maXTouch T Series Touchscreen Controllers

Experience Touch Like Never Before

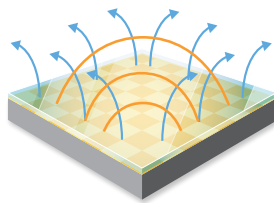
The Next Generation of Mobile Products

Our maXTouch® T Series devices — the newest in our capacitive touchscreen controller family — create what you've always imagined.



Smart, Sleek and Sophisticated

The revolutionary maXTouch T Series represents the next generation in Atmel's industry-leading capacitive touchscreen controllers for the mobile market. It features a range of user interface technologies with cutting-edge performance that creates a best-in-breed platform for consumers.

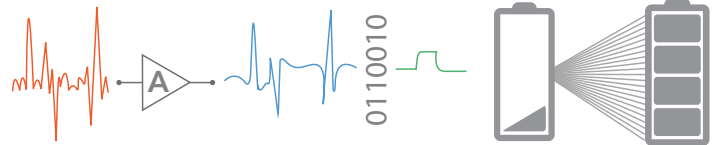


Revolutionary Adaptive-Sensing Architecture

The maXTouch T Series architecture combines the best of mutual and self-capacitance to ensure optimal touch performance with the highest noise immunity and lowest power consumption.

Lowest Power Consumption

Analog and digital filtering efficiently combat any noise source with the lowest power consumption in the industry.



Active Stylus Support

maXTouch T Series controllers support both a thin passive stylus and the Atmel maXStylus® active stylus. maXStylus offers high resolution and an accuracy of $\pm 0.25\text{mm}$ for a precise writing experience. The maXStylus family also provides:

- Advanced gesturing
- Palm rejection
- Pressure-sensing capability with 256 pressure levels to enhance writing and drawing experiences.



Passive Stylus Support

maXTouch T series also supports passive stylus with tips as small as 1.0 mm. This allows users to perform touch operations with any ordinary metallic ball-point pen or pencil.

Glove Touch Support

The T series touch controllers can sense multi-finger glove touches. The T series advanced architecture has superior SNR (signal to noise ratio) that allows sensing with gloves 5-mm thick.



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Moisture and Water Droplet Touch Support

Regardless of the operating environment maXTouch T Series chips are designed for robust operations. Dry or wet, cold or hot, the T series will take on rainy weather and sweaty hands without any compromise in touch performance.












Integrated Capacitive Buttons

You can integrate capacitive buttons without tying-up any X/Y lines from the touch controller. Plus, you can support up to 12 channels of buttons, sliders, and wheels (BSW) through an embedded hardware block, the Peripheral Touch Controller (PTC).

Combat Charger Noise

Your customers can achieve flawless touch performance using any charger. Atmel's maXCharger® Technology, another key maXTouch T Series feature, makes it possible to control charger noise. It helps achieve:

- High Responsiveness
- Low Jitter
- No False Touches

			
	IN-BOX	3RD PARTY	12V USB
Atmel			
Competitors			



Total OS Support

Complete support for all major handset, tablet, and notebook operating systems.



Key Applications

- Smartphones
- Phablets
- Tablets
- Ultrabooks
- Notebooks
- All-In-One PCs
- Digital Still Cameras
- e-Readers
- GPS Systems
- Portable Media Players

Shorter Design Cycle

You won't need to develop any firmware to configure your controller for a particular touch sensor stackup, display, or charger. Our thinner sensors also require no synchronization to the display or dedicated listening channels. This makes maXTouch T Series devices as easy to develop as previous-generation maXTouch devices.