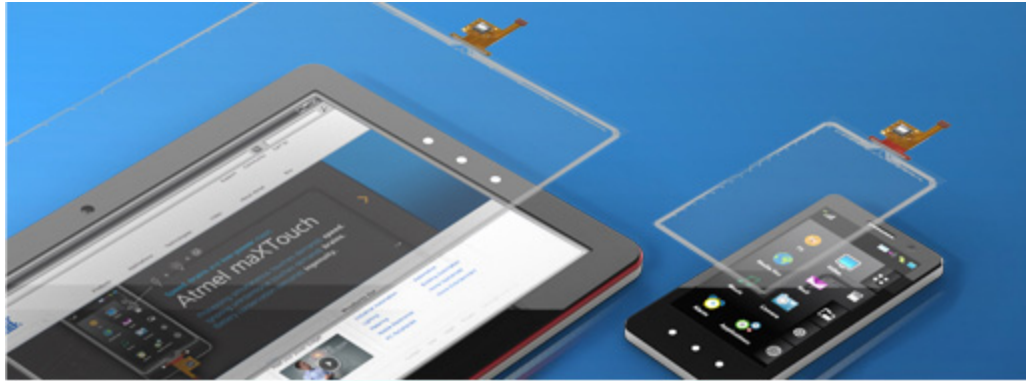


# Touchscreen Controllers



## Reengineering the Touchscreen Experience

Building on 15 years of Atmel® touch innovation, maXTouch® is the next-generation controller technology for touchscreen applications that delivers both superior performance and low power consumption. The technology enables touch interfaces that identify, qualify, and track the user's contacts with exceptional precision and sensitivity.

With maXTouch unlimited touch, users can enjoy a sophisticated interface that is smart enough to ignore unintended touches. Atmel touchscreen chips are small enough to fit the most compact mobile devices and powerful enough to accommodate the larger screens on products such as digital tablets, and Windows® 8-compliant notebooks and Ultrabooks™. The result: peerless touch interfaces that are intuitive, flexible, reliable, and battery-friendly.

## Key Features

- **Unlimited touch** — This unique maXTouch capability enables advanced functions invoked by simultaneous multiple touches, and helps avoid false touches. Newer devices in the family integrate maXFusion™ sensor hub technology, which processes data from a range of sensors including accelerometers, gyroscopes and magnetometers to control the end product or a specific application based on real-time data related to location, direction and orientation.
- **Active stylus** — With a high-performance 1mm tip, maXStylus™ active stylus offers the convenience of pen-like operations on the touchscreen.
- **Fast response** — High scan rates enable devices to follow virtually any motion, supporting demanding applications.
- **Exacting precision** — An advanced, low-noise front end and numerous sensor nodes make the screen more precise and sensitive to contact.
- **Unparalleled flexibility** — The chips can be easily configured to suit a broad array of applications and screen sizes.
- **Low power consumption** — ICs "sleep" after scans to conserve power and extend battery life.
- **Small footprint** — Chips are suitable for the smallest devices and require few external components, lowering system costs.
- **Robust operation** — Environmental resilience and excellent noise suppression increase reliability and usability.

## Touchscreen Controllers Devices

Device Family	Summary Benefit	Applications	Technologies	Key Parameters
<u>Active Stylus</u>	Use advanced touch gestures with simultaneous touch and stylus operation on touchscreens	Tablets and handsets with touchscreens up to 11.6"	maXStylus active stylus touch functionality	Frame rate up to 140Hz High resolution of 600ppi Pressure sensing Button functionality

Clearly see what is being touched with 1mm stylus tip  
Write naturally with excellent palm rejection support

				112 to 3432 nodes
	Up to 16 touches			8/16-bit or 32-bit microcontroller technology
	Fast response time		Touch technology	Up to 3X enhanced performance
	Smart processing	Touchscreens up to 17.3 inches	maXFusion technology	Up to 50% lower power
<u>Unlimited Touch</u>	Sensor hub functionality			Lower cost, easier design through single-chip solution

	High-performance interface microcontroller that provides single- and dual-touch gestures for intuitive user interfaces	Touchs keypads with buttons and sliders	Touch technology	Up to 48 individually configurable keys
<u>Two Touch</u>				

	Easy-to-use touchscreen microcontroller solution for single-layer sensor implementations	Single-touch capacitive touchscreens	Touch technology	Up to 16 nodes I2C interface
<u>Single Touch</u>				

	Single layer, shieldless sensor	Center stacks		Screen sizes up to 10"
	Up to 16 touches	Navigation systems		Up to 768 nodes
	Gloved operation	Radio HMI	Touch technology	150Hz touch response
<u>Automotive Qualified</u>	Embedded gestures	Entertainment HMI		I2C interface

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