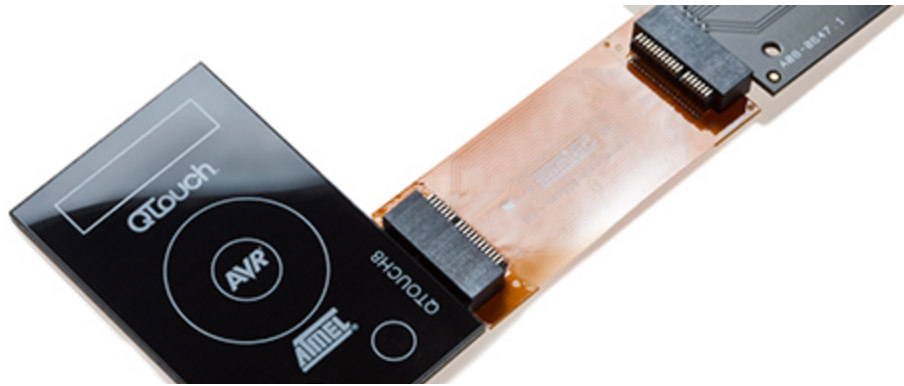


Buttons, Sliders and Wheels



A Sure Touch for Application Specific Controls

Atmel offers market-proven technology for implementing nonmechanical buttons, sliders, and wheels on any touch-sensitive device. These integrated circuits (ICs) enhance the user experience with excellent precision and reliability.

They also deliver superb low-power characteristics, a critical requirement for today's battery-powered handheld and mobile devices. The technology supports simple 1–10 button configurations as well as more complex scanned-matrix configurations of up to 48 buttons — at very low cost per button. In addition to the application specific chips, Atmel offers the QTouch® Suite for embedding buttons, sliders, and wheels into the industry-leading Atmel AT91SAM and AVR® microcontrollers.

Key Features

- **Long Range Proximity Sensing** — Provides a more intuitive user interface by enabling capacitive proximity range reliably over 10-inches (25cm)
- **Cutting-edge interfaces** — Soft controls enable sophisticated designs without the space constraints and wear-and-tear on mechanical parts.
- **Market-proven technologies** — Atmel has 15 years of experience in the touch market, with hundreds of applications now in operation around the world.
- **Exacting precision** — The ICs deliver patented adjacent button suppression for small keypads and enables clear, discrete buttons on touchscreens.
- **Design flexibility** — Support for sliders and wheels on the interface and up to 48 customized buttons allows designers to maximize functionality and aesthetics.
- **Low power consumption** — The ICs draw a minimum of power, conserving battery charges on mobile devices.
- **Robust operation** — Environmental resilience and excellent noise suppression increase reliability and usability.

Buttons, Sliders and Wheels Devices

Device Family	Summary Benefit	Applications	Technologies	Key Parameters
<u>Single Button</u>	Configurable sensitivity Proximity sensing	Touch button replacements for mechanical buttons	Touch technology	Max-on timeout Touch-on/touch-off Configurable timer
<u>Buttons ≤ 10</u>	Small packages	Mobile devices	Touch technology	Up to 10 soft buttons
<u>Buttons > 10</u>	Many buttons from one device	Mobile and consumer electronics	Touch technology	Up to 48 soft buttons

applications &
Home
Appliances

Wheels & Sliders

Capacitive Touch Sliders
and Wheels

Small control-
panels
Battery-driven
consumer
devices

Touch
technology

Up to 16 touch channels

LED control

I/O expansion

2-wire serial interface

Automotive
Qualified

Standardized, fully
automotive-qualified 11-
button capacitive-touch
controller

Automotive
applications like
radios, keyless
entry, electric
windows, and
satellite
navigation

Touch
technology

Automotive Qualified 11 buttons

FOR OTHER INFORMATION:

Telephone: +65 6515 2988

Fax: +65 6515 4515

[Email://info@mccoy.com.sg](mailto://info@mccoy.com.sg)

www.mccoycomponents.com