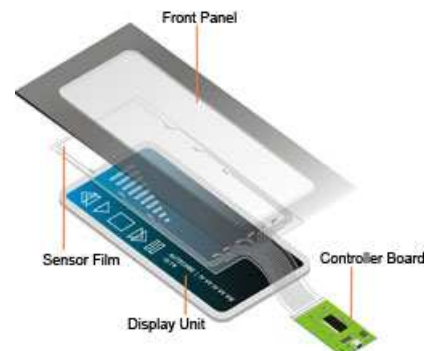


Atmel Touchscreen



Atmel's touchscreen offering includes the touch controller IC and board reference designs as well as sensor reference.

Touchscreens based on capacitive sensing technology are the most powerful and adaptable user interfaces available. They provide the means for direct and immediate user interaction that often requires little or no training or explanation. With a good design, a touchscreen product will provide a completely immersive experience where the interface itself becomes virtually transparent to the user.

To achieve this for your product you will need to bring many different elements together. Amongst these, the responsiveness, accuracy and reliability of the touch sensor itself are critical. It can require careful design and a great deal of expertise to get this right, particularly if you want to use a multiple touch design. Fortunately, you no longer need to be expert in touch sensing technology to design a touchscreen product.

Atmel's focus is on providing you with off-the-shelf touchscreen components and sensor designs that will guarantee that your product's touchscreens are highly responsive, accurate and reliable from the start. The aim is to simplify your hardware design process so that you can concentrate on application design, secure in the knowledge that your touchscreen sensor will provide all of the performance that you need.

The proven reliability of Atmel's patented QMatrix™ charge-transfer method has been extended to include QField™, for responsive and accurate reporting of touch on a two dimensional array, and QTwo™, which provides identification and tracking of two independent touches across the screen.

The combination of these three key technologies means that specifying a touchscreen for your product can simply be a matter of deciding on the screen size and level of performance that you require. In many cases you can then select your hardware from a range of standard Atmel solutions.

Of course, none of this means we can't provide a custom solution when required. Atmel's touch screen components are highly adaptable and we have a great deal of experience of finding unique solutions to touchy problems.