



PenMount RMT Resistive Multi-touch Controller

We all know that resistive touch products and projected capacitive (PCAP) touch products each have their advantages. Resistive touch products already possess more than 40 years of history on the market. Its working principle relies on pressure and its advantages include being unaffected by water and noise interference and providing customers with stable touch operation. However, past iterations of resistive touch screens could only support single point operation. The advantage of PCAP touch products is the ability to recognize more than two touch signals but PCAP touch products may produce false touch signals when affected by noise and water. A number of new products insist on no tolerance for false touch signals yet wish to employ two or more fingers for touch operation. At the end of last year, we introduced the PenMount Resistive Multi-touch (RMT) touch product. This is another PenMount controller breakthrough, a touch panel that is not affected by water or noise yet can support two-point or multi-point operation.

The PenMount RMT touch controller allows users to operate touch screens smoothly even when the touch surface is covered in water, blood, saline, sea water, or when the system is in an environment filled with low-frequency high-voltage noise. The PenMount RMT touch controller supports the two-finger pan, zoom, and rotate gestures featured in Windows OS and Android OS to broaden the scope of customer product applications. In addition to the aforementioned functions, the PenMount RMT touch controller can also be used with a stylus and supports operation with thick gloves. If customers wish to develop software applications themselves, we will provide a complete SDK.

Recently, a new firmware V1.1 has been released for the PenMount PM6601 RMT touch controller. Its main improvements are as follows:

- **Additional support for different types of RMT touch panels**

Currently, RMT touch panel aspect ratios can be categorized into 16:9 and 4:3 types and is further divided into long side line-out or short side line-out. The newest version of PenMount RMT controller firmware can provide support and switch between various types of panels.

- **Improved RMT touch panel calibration procedure**

Resistive touch panels require a calibration procedure to calibrate linearity. The updated PenMount RMT controller firmware internally saves calibration values for use during firmware update and function diagnosis through read commands.

Since PenMount RMT products use the same Protocol format as PenMount PCAP products, a great degree of software compatibility can be achieved. If you are already using PenMount PCAP products, system images you have produced will not need to be changed in the majority of situations and can be directly paired with PenMount RMT controllers.

PenMount can tailor a suitable resistive RMT solution for you according to your project and special needs. If you wish to know more about the benefits PenMount RMT products can bring to you, please feel free to contact Alcom Electronics.