

## AMT PCAP Touch Panel With Extended Temperature Specification

AMT Projected Capacitive (PCAP) touch panels have been developed and well-received in the market for more than a decade. To provide customers with high-quality and dependable products, AMT persists in enhancing our technology and searching for even more reliable materials to upgrade our products. We are happy to share that after our meticulous long-term research and design, we have significantly improved our temperature and weather resistance for standard AMT PCAP touch panel products. The operating temperature is extended to  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ , and the storage temperature is extended to  $-50^{\circ}\text{C} \sim +90^{\circ}\text{C}$ ! We are confident that this improvement meets customers' expectations and compliances with the market trend!



### Extended Temperature Specifications Of PCAP Touch Panel

Outdoor touch applications need to withstand a low-temperature environment as low as  $-40^{\circ}\text{C}$ . On the other hand, touch panels used in vehicles

must also meet the temperature level requirements of vehicle regulations, that is,  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ . AMT PCAP touch panels have passed 500 hours of environmental testing, which confirms that our products can meet **the operating temperature range of  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$  and the storage temperature range of  $-50^{\circ}\text{C} \sim +90^{\circ}\text{C}$** . Compared to common operating temperature on the market:  $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$ , and storage temperature:  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ . We are confident that AMT PCAP touch panels are most suitable for applications requiring high quality and high specifications, i.e., industrial, medical, vehicles, and outdoor.

### A Controller That Matches The Operating Temperature

The PenMount PCAP touch controller paired with the AMT PCAP touch panel also operates at the wide-temperature condition of  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ . If the customer uses PenMount K1 series (ILITEK IC) or AE series (EETI IC) touch controllers, we will examine whether high specifications can be achieved based on the case's specific needs.

## One For All PCAP Touch Solution For All Your Needs

AMT PCAP touch solutions feature high quality, high specification, versatility, and ease of operation. They are suitable for different applications in various environments. At the end of 2021, AMT launched the One For All PCAP touch solution. The unique PCAP touch panel design can support PenMount, ILITEK, and EETI controllers simultaneously, allowing customers to use the same PCAP touch panel with different controllers. Coupled with the high specifications of AMT PCAP touch panels, it can better meet the diverse application needs of customers.