



HighPerTouch™ - Superior Performance Capacitive Touch

HighPerTouch™ is a new innovative solution to issues related to capacitive touch such as glove performance, water interference, and thick inconsistent substrates.

TouchSensor's HighPerTouch™ technology works with traditional capacitive touch architectures by simply replacing some libraries on the touch microcontroller chip with the HighPerTouch™ code. This small change means many of the traditional limitations of capacitive touch are eliminated.

In addition to performance improvement, one of the key advantages of HighPerTouch™ is that it allows for an air gap between the board and touch surface panel, opening up new design possibilities including serviceability of the electronics separate from the expensive decorated substrate.

KEY ADVANTAGES OF HighPerTouch™

- Improved glove performance
- Improved water performance
- Improved saline performance
- Touch through air gaps
- Performance through manufacturing variances
- Adhesive-free mounting
- Thicker substrates
- Improved signal-to-noise ratio

PERFORMANCE COMPARISON

PERFORMANCE CATEGORY	CONVENTIONAL TOUCH	HighPerTouch™
10 V Conducted Immunity	✗	✓
Water Drip Test	✗	✓
Water Spray Test	✓	✓
Response Time < 100 ms	✓	✓
Substrate Thickness Variation	Up to 0.5 mm	Up to 2 mm
Air Gap	✗	✓ Up to 1mm
Glove (leather or knit)	✗	✓

For more information visit
www.touchsensor.com/HighPerTouch

