

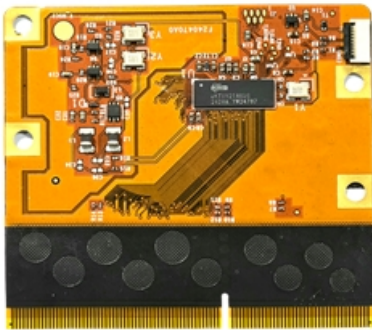
Category Award

AI enabled touch screen solution
for IPC



ELAN Microelectronics Corp.
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[Company Website](#)



Winning Reason

The market's first single-chip touch solution combining capacitive, EF electric field, and AI algorithms offers waterproof and thick glove (including rubber gloves) touch functionality. Utilizing AI to predict stylus strokes, it provides smooth writing with a pen reporting rate of up to 500Hz. This solution can be applied to industrial computers, rugged laptops, tablets, and wearable devices, as well as in industrial (production lines), military-grade environments, outdoor self-service facilities (restaurant ordering machines, self-service gas stations, kiosks), and the medical industry (electronic medical record systems, monitoring equipment).

Product Feature

1. Elan self-developed circuit design effectively receives high-frequency electric field signals. Additionally, the proprietary edge AI algorithm detects whether a hand on the screen is submerged in water, accurately reporting object properties to the system.
2. The edge AI algorithm can distinguish between a hand and water on the screen, preventing false touch coordinate reporting due to water droplets or failing to report coordinates when a finger operates within a water droplet.
3. The edge AI algorithm adapts to screen contamination, preventing incorrect or missing touch coordinate reports caused by dirt.
4. Elan self-developed circuit design and edge AI algorithm can differentiate between gloves and fingers, ensuring accurate touch coordinate reporting.