S32T Touch Controller for Automotive Applications

S32T NEW

Preproduction

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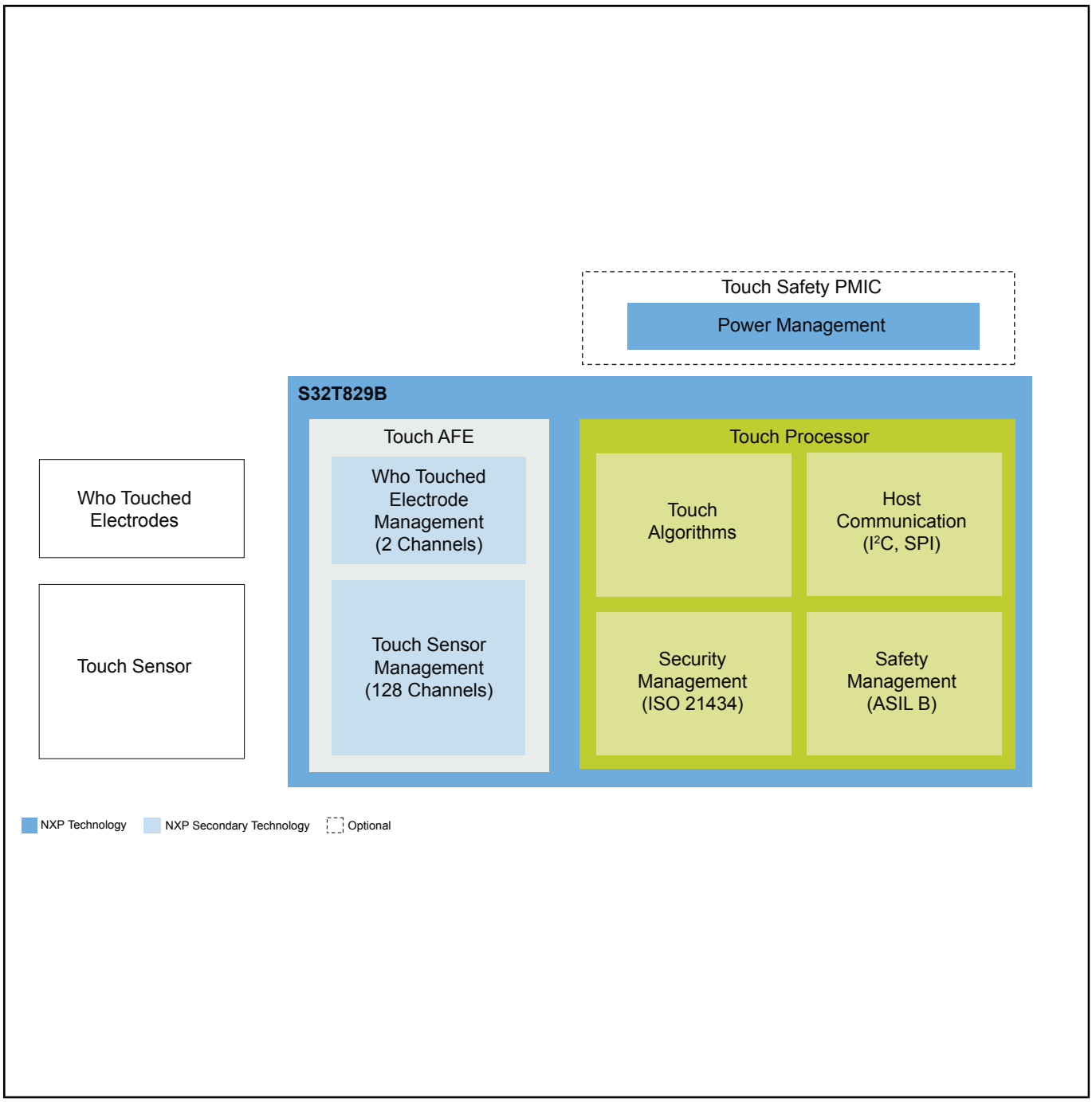
The S32T family provides a scalable automotive touch solution designed for next-generation cockpit displays, smart surfaces and touch-enabled human-machine interfaces (HMIs). Combining a touch processor, an analog front end (AFE) and power management components, S32T enables automotive manufacturers to transition from mechanical controls to responsive digital interfaces while supporting the safety and reliability requirements of software-defined vehicles (SDVs).

S32T delivers industry-leading signal-to-noise ratio performance, low-latency touch detection and advanced noise mitigation for challenging display environments, including OLED, MicroLED and large-format displays. Its unique Who-Touch™ technology identifies which vehicle occupant is interacting with a touch surface, helping to prevent unintended actions, reduce driver distraction and enable more personalized cockpit experiences without requiring an external signal generator.

Designed to simplify the development of safe, secure and intelligent automotive touch systems, the S32T solution is supported by evaluation boards (EVBs), reference designs, visualization and debugging tools, firmware and an automated validation framework. This comprehensive enablement ecosystem helps accelerate the development of automotive cockpit displays, dual-view infotainment systems and advanced smart-surface applications.

S32T Touch Controller Block Diagram



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