S32N7 Super-Integration Processor for Software-Defined Vehicles

S32N7 NEW

Preproduction

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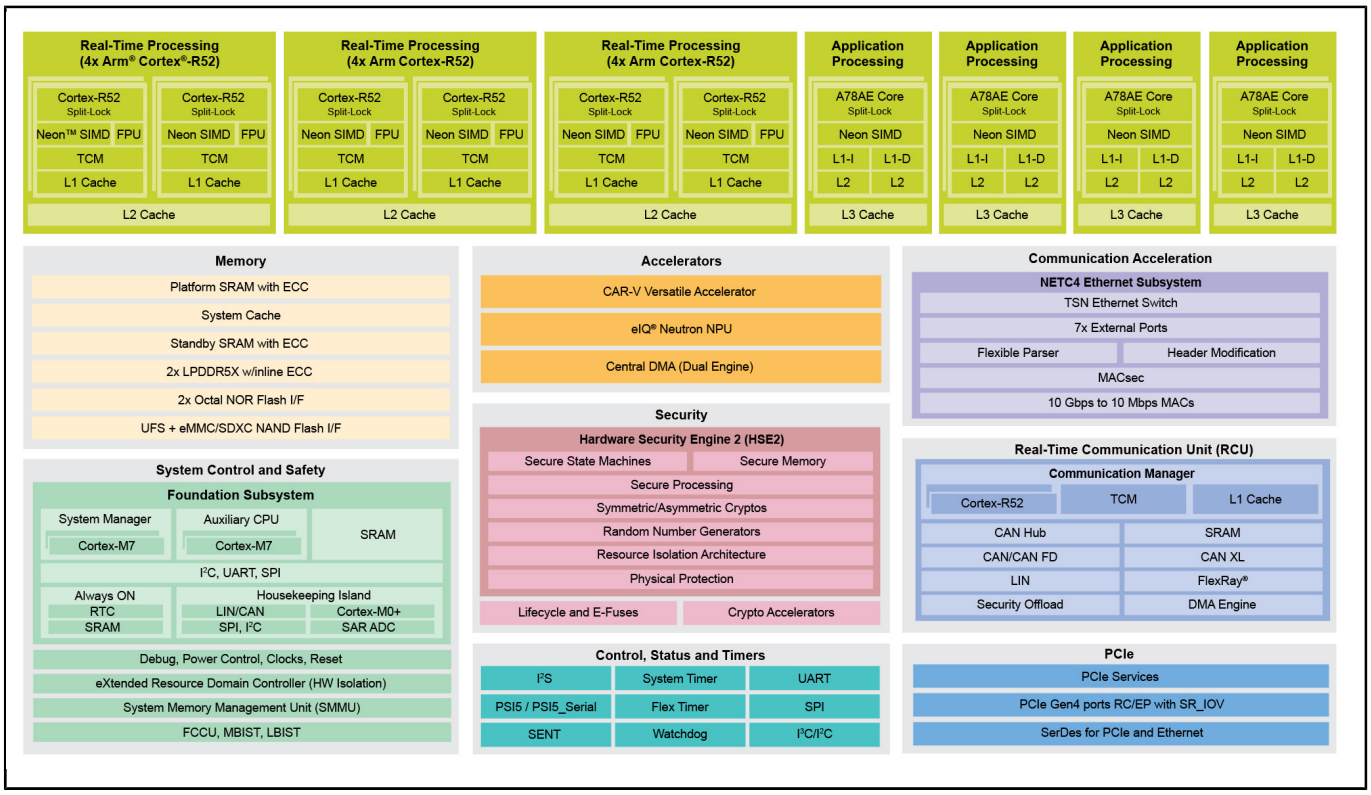
NXP’s S32N7 processor series breaks silos to drive cross-domain innovation through Edge AI, with the mission to deliver differentiating value at the heart of the software-defined vehicle.

S32N7 enables vehicles to become intelligent and evolve through AI and frequent OTA updates. It consolidates up to eight domains within safe hardware partitions, delivering ASIL D real-time performance and robust cybersecurity. Application cores unlock efficient data orchestration. Integrated comms engines enable low-latency access to zones, sensors and actuators. Built-in AI/data accelerators support predictive intelligence. PCIe enables seamless data flow and modular expansion while compatible SoC variants and a unified software enable reuse and scalable platform implementations.

S32N7 empowers OEMs to drive innovation, set new benchmarks for quality, and serve multiple markets. Fleet managers cut costs with predictive insights. Drivers enjoy vehicles that anticipate their needs, delivering unmatched efficiency, safety and personalization.

S32N7 Features Block Diagram



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