



CRATON2

The Most Advanced Vehicle-to-Everything (V2X) Communication Solution

- Truly Secure
- Simplest Integration
- Architected for Autonomous Driving
- Cost Optimized
- Worldwide Compliant



CRATON2 is the most integrated and cybersecurity-protected V2X solution available today. Equipped with all the elements needed to build a complete V2X system, CRATON2 is designed to optimally address embedded V2X standalone/offload architectures, as well as retrofit/aftermarket segments. This chipset was created for scalability to meet the evolving market needs.

CRATON2 integrates a mobility optimized IEEE802.11p modem, ultra-low-latency V2X Hardware Security Module (eHSM), powerful hardware acceleration engines for line-rate message verification, single/dual ARM Cortex A7 processor capable of running full V2X middleware and applications and optional secure CAN MCU. In addition, CRATON2 supports IEEE 802.11a/b/g/n/ac to enable external WiFi for supplementary value added services. Due to its high level of integration, CRATON2 is cost optimized, as it reduces development, integration and certification effort and ensures the quickest time-to-market.



CRATON2 is a global platform, supporting US, EU and Japan standards, with a rich and constantly growing ecosystem, including eight qualified V2X middleware vendors, as well as a variety of V2X module and unit manufacturers.

Truly Secure

CRATON2 is the most secure V2X chipset on the market today. It assures trusted information for safety applications, now and for decades to come. It includes multiple defense layers, such as secure boot, secure low-latency signing, line-rate verification of the entire V2X communication link, and secure V2X firewall. In addition, Autotalks' cryptographic-agile security engines support field upgrade of future ECDSA curves while maintaining safety-grade performance levels.

Features:

- Dual channel/diversity IEEE 802.11p mobility optimized modem
- IEEE 802.11a/b/g/n/ac operation at 2.4GHz / 5GHz, up to 433 Mbps
- Concurrent 802.11p/WLAN connectivity
- Line-rate ECDSA and V2X embedded HSM (Hardware Security Module)
- AEC Q-100 grade 2 (-40°C to +105°C ambient operation)
- Minimal thermal constraints benefiting from high-temperature manufacturing process
- 600MHz dual-core ARM Cortex A7
- Secure CAN MCU option with CAN FD and FlexRay interfaces
- Rich array of interfaces, including USB 2.0, Ethernet 10/100/1000 AVB

