Autotalks Craton2 Is V2X Silicon Without Governance

by Nick Clark | Published April 25, 2026

What Craton2 Provides

Craton2 is Autotalks' V2X chipset implementing the IEEE 802.11p/ITS-G5 and 3GPP C-V2X PC5 standards in a single device. It handles physical-layer transmission, IEEE 1609.2 message authentication, and the protocol stack required for V2X interoperability. The chipset is integrated into multiple vehicle OEM platforms; the deployment scale is the largest in the V2X chipset market.

Craton2 verifies that incoming V2X messages are authenticated under valid 1609.2 certificates. The verification answers 'is this message from a credentialed V2X participant.' What it does not answer is 'what authority does this credentialed V2X participant have over the receiving vehicle's behavior.'

Why Authentication Is Necessary But Not Sufficient

V2X authentication ensures that messages come from credentialed participants. The participant population includes regulatory authorities (DOTs broadcasting traffic-control information), commercial operators (fleet operators broadcasting fleet coordination), peer vehicles (other V2X-equipped vehicles broadcasting position and intent), and adversarial entities (which authentication can detect when their

credentials are revoked, but the authentication infrastructure assumes pseudonym-based privacy that limits structural distinctions).

Authenticating that a message came from a credentialed participant is not the same as deciding whether to act on it. Acting on regulatory directives requires distinguishing them from peer broadcasts. Acting on commercial fleet coordination requires distinguishing the fleet's authority from advisory peer messages. The behavioral-authority distinction lives above the chipset's authentication, in an architectural layer V2X currently leaves to vehicle-OEM integration.

How the Architectural Primitive Composes With Craton2

The governed-mesh wire format consumes Craton2's authentication output. Authenticated messages enter the architectural primitive's admissibility framework with their credentials evaluated against the published authority taxonomy. Behavioral authority is determined by the receiving vehicle's policy applied to the message's authority class.

Craton2 continues to provide its V2X authentication. The architectural primitive operates above with the behavioral-authority distinction. Vehicle OEMs gain structural support for what they currently implement as proprietary integration above the V2X chipset.

What This Enables for V2X Commercial Deployment

V2X commercial deployment has been hampered by the gap between authentication (what the chipsets provide) and actionability (what vehicles need to actually use the messages safely). The behavioral-authority layer closes the gap structurally.

Autotalks' chipset position benefits from being the V2X silicon that integrates with a unified behavioral-authority layer. The patent positions the primitive at the layer that V2X has been waiting for — the layer that transforms 'authenticated V2X messages exist' into 'autonomous vehicles act on V2X messages structurally.'