

EMBEDDED · SECURE UPDATE SUITE

Autotech Bootloader

Secure programming, hardened by serial production.

The Diadrom Autotech Bootloader is the production flash bootloader that stands between a routine update and a bricked controller in the field. It validates the application at every boot and never erases itself, so an interrupted update is recoverable rather than fatal.

CAPABILITIES

Programming

- UDS transfer: RequestDownload, TransferData, RequestTransferExit (0x34 / 0x36 / 0x37)
- Signed and encrypted software packages
- Application validated at every boot; the bootloader never erases itself

Security and evidence

- Hardware root of trust (HSM) for cryptography, through Encrypt
- Secure boot and SecurityAccess (UDS / ISO 14229)
- Built to produce the evidence a manufacturer's UNECE R156 software-update management system has to show

TECHNICAL

TARGETS	Multiple MCUs on target hardware, adapted per customer and OEM
VERIFICATION	~550 test cases across ~30 releases; ~16,000 test executions in one project
PROCESS	ASPICE requirements traceability; test and verification of deliveries

LICENSING

A licence with adaptation to your MCU and OEM requirements, or a reuse licence for a new vehicle manufacturer. Licences are perpetual or term-based, agreed per programme. Source-code escrow is available. Support and further development run under a maintenance agreement.

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UNITS BRICKED BY DIADROM'S SOFTWARE SINCE 2016

PROVEN IN

Volvo Cars suppliers · Secure software update

Nippon Seiki and BCS AIS ECUs integrated into Volvo Cars platforms; zero units bricked by Diadrom's software since 2016. diadrom.com/cases/secure-software-update

Nippon Seiki · Reuse licence, 2022

An existing Bootloader implementation licensed for a new vehicle manufacturer, with no development project attached. diadrom.com/investors/press

WATCH THE PROOF

Case film, secure software update · 0:52
diadrom.com/cases/secure-software-update

NEXT STEP

Ask about this product, or discuss your programme.
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