



Elektrobit

EB civion

Kickstart SDV cockpit development

Leverage cockpit development throughout your value chain with Elektrobit's deep automotive expertise, brought together in a comprehensive end-to-end product line.

Apply proven technologies to accelerate projects and bypass resource-heavy development cycles. Focus on delivering a branded user experience your customers will love.



Accelerate development

Boost CI/CD workflows with reference HMIs, low-code tools, and cloud-native technologies.



Save cost

Skip R&D invest and cut NRE budget with proven white label technologies ready for vehicle and variant rollout.



Cut time to market

Replace physical hardware dependencies with virtual testing, system-wide customization, and pre-integrated software stacks.



Gain supply chain control

Source your hard- and software independently with build-to-print designs for your cockpit domain controllers.



EB civion Creator

Virtual cockpit development

Shift HMI and app development left with virtual tools that allow building and testing in simulated target environments, independent of physical hardware.



EB civion Core

Modular automotive software stack

Skip full development cycles with proven, modular target software for real-time, high-performance, and infotainment functions.



EB civion Cockpit

High-performance compute solutions

Propel cockpit HMI projects with system solutions combining integrated software stacks for specific SoC and custom designs.

What is your vision? Elektrobit is your partner for your digital cockpit. From entry-level to high-end. Get in touch!

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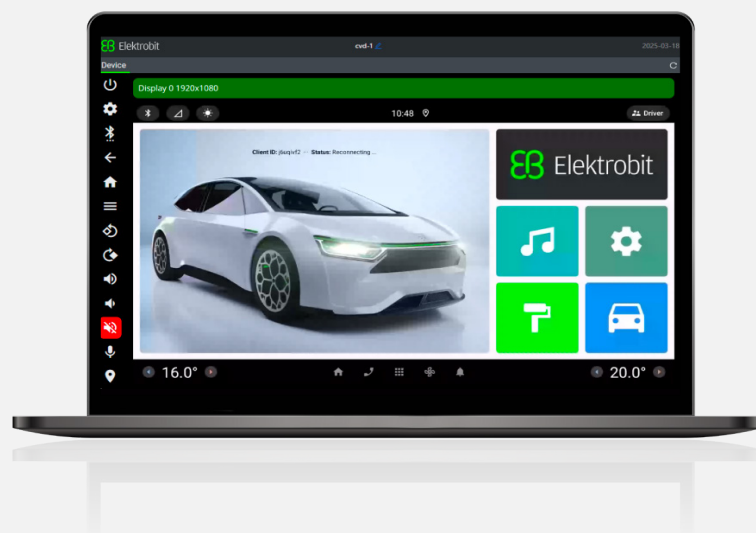
Virtual cockpit development

EB civion Creator delivers a hardware-independent, cloud-native environment that supports early-stage design, multi-OS development, integrated CI/CD workflows, and scalable validation.

With support for Android, Linux, and AUTOSAR-based platforms, Elektrobit empowers engineering teams to bring infotainment features and applications to market faster, with higher quality and reduced costs — backed by decades of proven success in automotive software.

Features

-  **Replicate** screen topology in the virtual cockpit based on Elektrobit's Android dev tools and reference environment
-  **Connect** your UX design project via Figma templates and customize your IVI with the Theming Engine plugin
-  **Emulate** your cockpit software via virtual Cuttlefish targets, for multi-site team members, integrated with your CI/CD workflows
-  **Abstract** vehicle data and extend with custom properties for app developers to create open-platform portability (via COVESA-VSS)
-  **Simulate** vehicle signals when there is no hardware, write test cases to run user or drive scenarios to test your third-party apps



Core benefits

Deliver future-ready infotainment user experiences

Immediate development without hardware in faster cycles

Easy collaboration of global teams

Lower prototyping, testing, and integration costs

Advanced branding and variant handling with high reuse capabilities

Future-ready for regulatory and tech shifts

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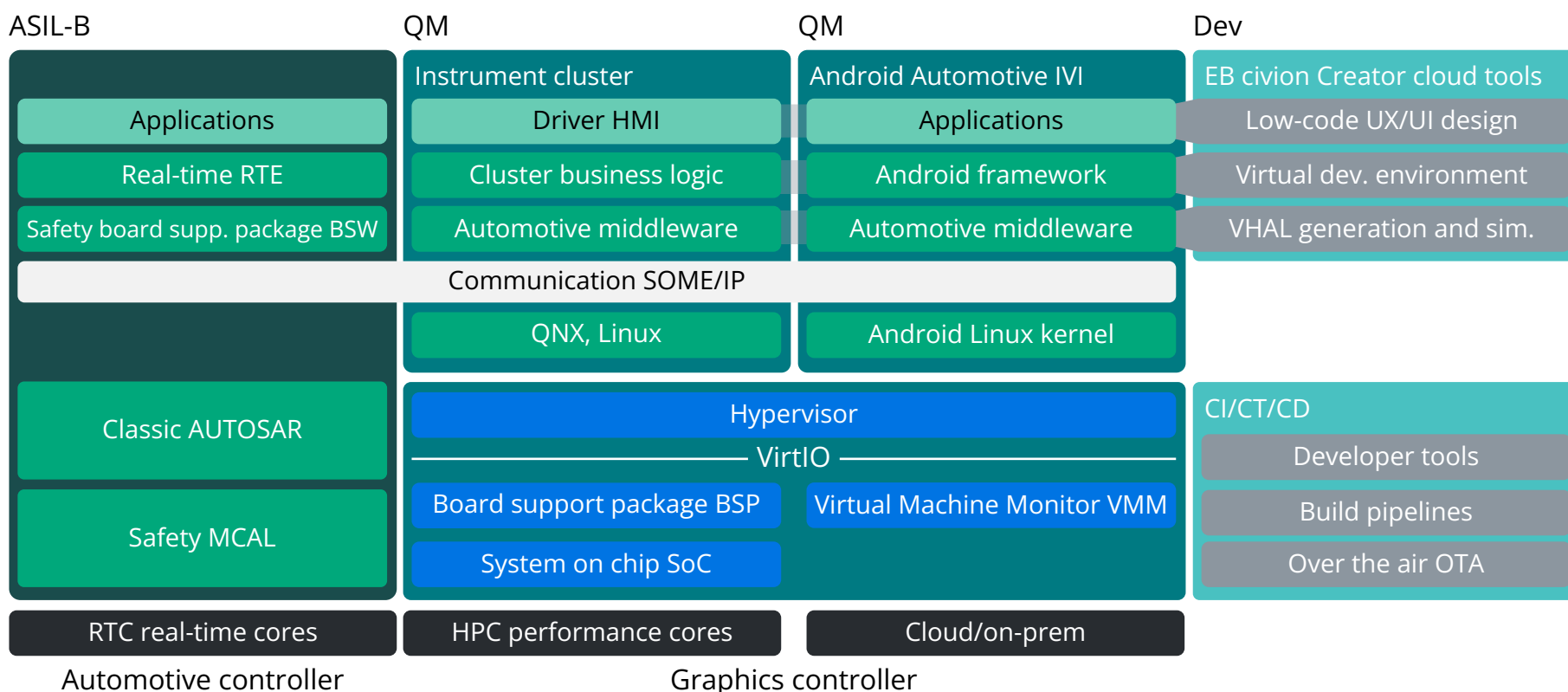
Modular automotive software stack

EB civion Core provides a complete set of industry-proven cockpit target software. The orchestration of all components for systems on chip (SoCs) and cockpit domain controllers (CDC) across vehicle interface, cluster-ready system partition, and infotainment enables ready-to-integrate cockpit modules.

Suppliers and vehicle manufacturers develop faster, skip R&D investments, and achieve future reliability with continued support and maintenance.

Features

- Pre-integrated, production-proven **cockpit system software** for infotainment, cluster, and vehicle control
- Modular architecture** covering Android Automotive, instrument cluster, AUTOSAR safety, middleware, and OTA
- Decouples software from hardware**, enabling reuse across vehicle lines and generations
- Reduces R&D efforts**, risks, and certification complexity through validated software building blocks
- Supports **ARM** and **x86**, QNX or Linux, with ASIL-B/ASIL-D capable safety concepts



Core benefits

- Skip R&D cycles and mitigate risk with industry-proven software modules
- Accelerate your vision with a pre-integrated software stack
- Own the user experience through open interfaces for updatable software
- Focus on innovation and differentiation rather than foundational engineering
- Gain supply chain control by breaking free from Tier 1 lock-in

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EB civion Cockpit

High-performance compute solutions

EB civion Cockpit offers harmonized cockpit domain controller (CDC) designs and system software, ready for customization, branding, and integration into vehicles.

Multiple options are available and built around proven automotive SoCs to reduce development cycles, focus on innovation, and accelerate time to market with contemporary real-time, high-performance, and infotainment functionalities.

Features

-  **Ready-to-integrate** cockpit domain controller solutions combining hardware and a full software stack
-  Optimized for **high-performance computing** (HPC), real-time safety, IVI, cluster, and ADAS integration
-  Based on **automotive-grade SoCs** (Qualcomm 8155/8255/8775, AMD Ryzen) with reference and OEM-custom designs
-  **Flexible business models** Build-to-print, OEM in-house, or Tier 1 manufacturing

Example setup



SoC	Qualcomm SA8255P	Display	6x + 2x GMSL2/3 supports up to 12 displays multi-touch data Etc.
RTC µC	Infineon Traveo II CYT4BF	Vehicle	4x LIN2.1 3x CAN-FD up to 5Mbps 1x USB3.1 5Gbps 1x USB2.0
Safety	ASIL-B	Ethernet	1x 100/1000BASE-T1 up to 1Gbps, 1x 2.5GBASE-T1 up to 2.5Gbps
RAM	36 GBytes	Amplifier	4x 27W speaker 1x 2W warning (ASIL-A) 1x A2B interface 4x mic
UFS	256 GBytes	Radio	US-AM, -FM, -HD, -DAB, -SDARS for external antennas
NOR	256 MBytes	Camera	12x digital camera inputs (GMSL2/3) for DMS, CMS L+R, RVC, etc.
Measures	57 x 255 x 170 mm	Wireless	WiFi 6E, 2.4GHz/5GHz 2x2 MIMO 2x Bluetooth BT/BLE5.3
Weight	~2,500 gr.	GNSS/IMU	Integrated GNSS/GPS GPS, Galileo, GLONASS, Beidou 3D 6-Axis Gyro
		Debug	UART debug connector for SoC and vehicle µC
		Apple comp.	Content protection/MFi compliance
		Voltage	12/24V (8-36V)
		Thermal	Air or liquid cooling, operating temperature -40°C to +70°C
		Extensions	Flexible IO extensions for AI, gateway, amplifier or tuner, etc.

Core benefits

Deliver future-ready infotainment user experiences	Easy collaboration of global teams	Reduced NRE invest
Cut HW development time and accelerate SOP	Optimize prototyping, testing, and integration efforts	Gain supply chain control

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