



AMBER

AUTOMOTIVE MADE BETTER

AMBER gives carmakers the freedom to innovate, accelerate delivery, and stay future-ready.

For automotive players committed to reshaping the automotive industry, AMBER is a modular software platform that empowers carmakers to lead the software-defined vehicle revolution — unifying infotainment, instrument clusters, autonomous driving, and real-time domains into a single, orchestrated experience. Unlike fragmented stacks and closed, vendor-controlled solutions that trade freedom for convenience, AMBER delivers full source-code transparency, hardware-agnostic deployment, and a continuously evolving Platform Development Kit. AMBER helps carmakers move faster, with greater control, to build differentiated, future-ready SDV platforms.

Accelerating the software-defined vehicle revolution

As vehicles become increasingly software-defined, the complexity of integrating infotainment, driver assistance, and real-time control systems grows exponentially. Consumers expect seamless digital experiences, while regulators and markets demand compliance, safety, and continuous innovation across domains.

Carmakers and automotive suppliers must navigate fragmented software stacks, rising development costs, and shifting technology standards, all while reducing time-to-market.

AMBER offers a modular, future-ready software foundation to meet these challenges and enable the next generation of vehicle intelligence.

Comprehensive features for the full software-defined vehicles stack

- **AMBER** brings a cohesive and modular software foundation designed to accelerate the development of software-defined vehicles, from infotainment to real-time and safety-critical systems.
- **Ready for production:** Leverage the pre-integrated AMBER software modules to ensure faster time to market and simplify cross-domain software integration.
- **Customizable and flexible:** Tailored to meet carmakers' specific needs with full and transparent source code access. Forget any hardware lock-in, with AMBER's support of multiple hardware/software combinations, carmakers stay in control of their product.
- **Future-proof:** AMBER ensures continuous updates and compliance with industry standards, so that carmakers can focus only on adding value for their customers.

Why AMBER?

Cost savings

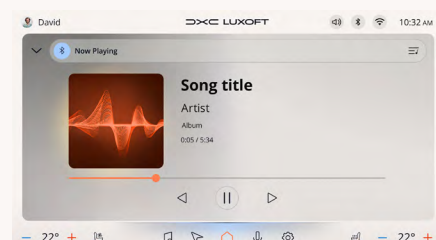
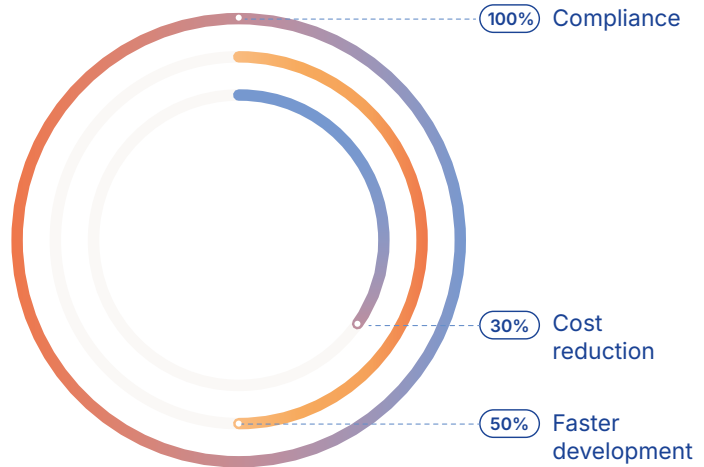
Cut costs and speed up delivery with a standardized approach that eliminates redundant development.

Freedom from lock-ins

Break free from vendor lock-in with a hardware-independent platform that adapts to any vehicle architecture.

Automotive compliance

Focus on innovation while we handle compliance, security, safety and maintenance for you.



Plug & play software assets

AMBER's suite of plug & play software assets reflects our deep, cross-domain expertise in automotive software — from digital clusters and middleware to infotainment and virtualization. These assets are production-ready, integration-friendly, and engineered for rapid deployment across diverse vehicle architectures. Each component is modular by design, enabling carmakers and automotive suppliers to selectively adopt, customize, and scale capabilities without vendor lock-in. This modular strategy is central to our vision: empowering our partners to build flexible, future-proof SDV platforms with reduced complexity and faster time to market.

AMBER digital instrument cluster

AMBER digital instrument cluster is part of the AMBER ecosystem and includes a high-performance graphics engine and a UI toolchain that enable rich, customizable HMI experiences.

AMBER's IC system can be enhanced with a safety-grade rendering layer that ensures predictable, real-time behavior and preserves visual integrity in safety-relevant contexts.

Cross-domain middleware

AMBER's middleware is the backbone of its SDV integration strategy. It harmonizes communication across IVI, ADAS, cluster, and real-time domains — supporting gRPC, SOME/IP, and SOVD protocols. With secure inter-VM bridges, diagnostics orchestration, and runtime visibility, it enables scalable, modular software architectures that are SoC-agnostic and safety compliant.

Android Automotive OS IVI stack

A fully integrated Android Automotive OS stack, optimized for production deployment.

AMBER's AAOS stack includes pre-certified components, DXC Luxoft-developed enhancements, and deep integration with hypervisors and non-Android domains. It supports rapid feature development, OTA updates, and seamless coexistence with legacy and real-time systems.

Projection stack (Android Auto, Apple CarPlay)

AMBER includes a lightweight, certified and production-ready projection stack that supports Android Auto and Apple CarPlay.

Designed for flexibility and compliance, it enables seamless smartphone integration without compromising system performance or safety. The stack is modular and can be deployed independently or alongside AAOS and other infotainment solutions.

Software Factory

AMBER Software Factory is a CI/CD-driven development and integration pipeline tailored for SDV programs. It spans the full life cycle — from requirements and design to integration, testing, and benchmarking. It ensures traceability, compliance, and continuous delivery of high-quality software across domains, enabling carmakers to scale development with confidence.

Our plug-and-play philosophy

At DXC Luxoft, we believe that software should empower, not constrain. The AMBER platform is built on a plug-and-play philosophy: each asset is modular, interoperable, and designed to integrate seamlessly into your existing environment. This approach enables you to select only what you need, scale as your requirements evolve, and stay ahead of industry trends.

Plug-and-play assets are essential because they:

- **Enable speed:** Quickly add new features without re-architecting your systems.
- **Promote flexibility:** Adapt to changing business needs and regulatory requirements.
- **Drive value:** Focus your resources on differentiation, not reinvention.

Why leading carmakers choose AMBER

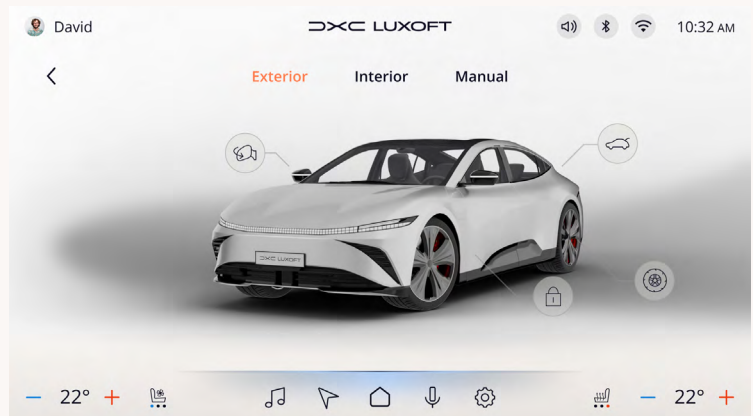
DXC Luxoft brings deep, unmatched expertise across the entire spectrum of automotive software stacks — spanning operating systems, middleware, connectivity, cloud integration, digital cockpit, advanced driver-assistance systems (ADAS), and beyond. Our long-standing experience as an engineering services provider and systems integrator enables us to design and implement modular, production-grade solutions that cover every layer of the software-defined vehicle architecture.

We create bespoke applications and end-to-end solutions tailored to your unique needs, supporting the

full range of AMBER assets and capabilities. Our flexible approach ensures you have the right solutions to meet evolving business requirements throughout the SDV revolution, accelerating development across domains while maintaining the highest standards of safety, security, and performance.

With DXC Luxoft, you gain a partner who understands the complexity and diversity of modern automotive software. We deliver the expertise, agility, and reliability needed to drive your business forward — no matter which technologies, platforms, or domains your future demands.

The future of mobility belongs to those bold enough to lead it. If you're ready to accelerate transformation, shape new experiences, and set the pace for the industry, now is the time to connect. Discover how AMBER can empower your vision and turn ambition into reality.



Visit our [website](#) to start the conversation with our leadership team and **unlock your next competitive advantage.**

dxc.com/automotive

