

Automotive eSIMs and global remote management solutions

ONE HARDWARE, GLOBAL EXPORT ADVANTAGE



GLOBAL MOBILITY WITHIN YOUR FINGERTIPS

As vehicles evolve into AI-native, connectivity is becoming mission-critical for differentiating the driving experience. Kigen delivers Automotive SIM, flexible and certified eSIMs offering unwavering reliability and global lifecycle management.

› Automotive eSIMs

Ruggedized, eSA certified, ultra-reliable Automotive grade eUICCs with one common security software and hardware architecture for design portability. We offer

- Customization of eSIM OS, profiles and applets
- Available in all SIM and eSIM form factors, including MFF2, reducing need for redesign
- Cybersecurity updates by default
- Testing capability for preparing security for PQC

Certified to meet AEC-Q100 CC EAL6+, FIPS, ISO/SAE 21434 for automotive fleets, **Kigen** provides the trusted root of connectivity that car manufacturers can balance hardware durability in extreme environment while flexibly switching to desired networks over the vehicle's 17-year lifespan.

EMPOWERING

TELEMATICS
E-CALL
INFOTAINMENT
HEADLESS UNITS
EXPORT VEHICLES
V2X

› Remote

Empower your fleet with global remote provisioning, compliant with GSMA SGP.32 standards. Kigen Automotive eSIMs are complemented by our fully certified eSIM stack, covering

- Certified, flexible Kigen eIM setup in cloud, hosted, or on-prem
- Deep integrations with Tier-1 MNO operators worldwide
- Multiple carrier profiles enabled at factory, with automated switch, and emergency profile handling.
- For export vehicle, v2x





KIGEN AUTOMOTIVE eSIMs

FOR CONNECTED VEHICLE FLEETS

FOR POST-QUANTUM ERA



World's first eSA-certified eSIM for latest specifications

Supporting SGP.32 version 1.3, with emergency profile handling for automotive



Automotive-grade trust anchor

Certified to meet AEC-Q100, CC EAL6+, FIPS, ISO/SAE 21434, -40°C to +105°C



Simpler TCU integration

IP Ae keeps provisioning logic within secure eSIM



Ready for post-quantum era

PQC-ready path for testing long service vehicle fleets



Remote connectivity freedom

Kigen eIM for remote profile orchestration with 200+ networks



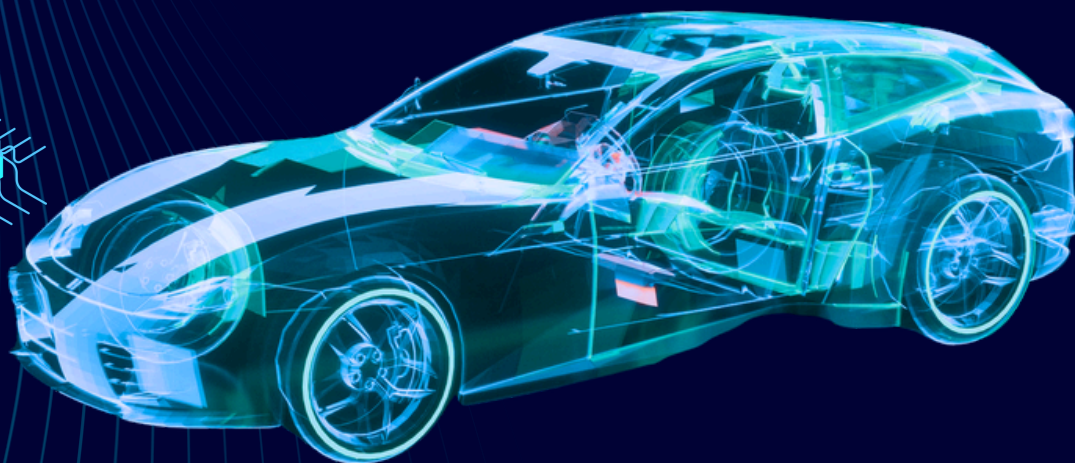
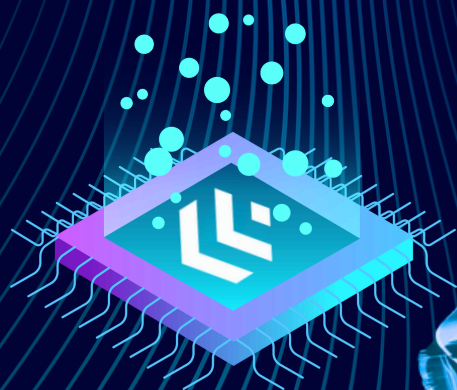
One platform across vehicle classes

Supports cars, two-wheelers, micro mobility and fleet applications

One platform across vehicle classes



Simpler TCU integration
ideal for AIS-140



One secure eSIM architecture for long-life connected vehicles

Launch supported by

GSMATM



Scan to learn more or visit:
kigen.com/esim/

AT A GLANCE

TRADITIONAL SMD SIM VS. KIGEN SGP.32 AUTO-GRADE ESIM

	TRADITIONAL SMD SIM	KIGEN SGP. 32 v1.3
FORM FACTOR	Soldered, non-replaceable	Soldered - MFF2 automotive-grade
OPERATOR BINDING	Locked to a single operator at factory	Multi-profiles stored; remote switching
PROFILE HANDLING	Not available for digital profiles	Certified with digital profile activation, and emergency profile handling
PROFILING & SWITCHING METHOD	Physical desoldering module replacement	IFPP (in-factory profile Provision) OTA (over-the-air), fully remote Automated switching via rescue & recovery applet
GLOBAL DEPLOYMENT	Multiple SKUs for different countries	One SKU, deployable in 150+ countries, trusted by 200+ networks with several ready for digital activation
LIFECYCLE MANAGEMENT	Minimal remote operability	Fully traceable, auditable, remote lifecycle control
REGULATORY READINESS	Difficult for CRA & similar frameworks	Built-in compliance for CRA (auditability, patch ability)

**BUILT FOR GLOBAL SCALE AND LONG-TERM COMPLIANCE
STANDARDIZED, SWITCHABLE, AUDITABLE, EASY TO INTEGRATE.**

GSMA SGP.32 · GSMA eSA-certified eSIM · SAS-SM certified eIM

SEVEN CORE FEATURES – BUILT ON GSMA SGP.32 PAVING THE ROAD FOR SCALABLE AUTOMOTIVE ESIM

› INDUSTRY STANDARD & COMPLIANT

- World's first GSMA eSA-certified eSIMs with automotive emergency profile handling and SAS-SM certified eIM (SGP.32) – Secure remote profile and eUICC management with regulation-compliant updates for EU and US markets.

› MARKET READY

- GSMA eSA-certified eSIM OS and hardware, root of trust and high-security protection - deployment flexibility with global market access.

› MULTIPROFILE

- Supports multiple operator profiles with remote switching, no single-network lock-in, for flexible deployment by model, market, and phase.

› FLEXIBILITY

- IoT + consumer model flexibility – Leverage both ecosystems for deployment freedom.

› EASE OF DEVELOPMENT

- Ease of development and integration through Open API 3.0 – providing reliable, comprehensive eSIM functionality into device and reporting systems.

› AUTOMOTIVE INTEGRATION READINESS

- Interoperability pre-tested with major global module vendors; continued validation via the Secure with Kigen program.

› CAPABILITY TO PREPARE FOR POST-QUANTUM CYBERSECURITY

- Transition to end-to-end PQC-resistant communications using Kigen's hybrid approach, combining classical and quantum-safe algorithms on the same platform, with C-SDK development suite and test eSIM samples.

BUILT FOR REAL-WORLD VEHICLE PROGRAMS

ESIM SOLUTION FOR AUTOMOTIVE INDUSTRY



Global Vehicle Export

- One SKU to all regions. Activate local profiles after landing
- Speed time-to-market
- Multiprofile management - seamless cross-regional operation



High Efficient & Compliant

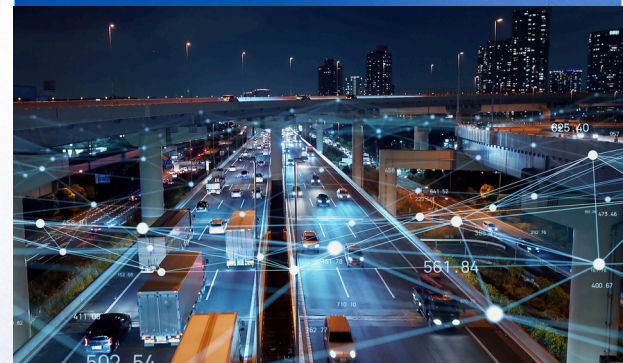
- Stronger purchasing confidence – certified, standards-aligned,
- Flexible connectivity management – adapt to local regs (eCall, data privacy, no permanent roaming)
- Improved operational control – full visibility over profiles and events



Factory-fit connectivity for SDV*

Connectivity embedded from production, not an afterthought.

**SDV- Software Defined Vehicle*



Exporting to Europe? CRA Is Not a “Plus” – It’s a Pass to Sell



From 2027, non-compliant connected products cannot be placed on the EU market. More acts and orders would be released in future across the world due to the increasing concerns on the cybersecurity in the physical AI era.

What CRA requires:

For any product with digital elements – built-in cybersecurity throughout the entire lifecycle (production, use, maintenance).

How Kigen delivers:

- Every profile operation is auditable and traceable
- Remote management platform supports continuous security updates (full audit and ready for integrations)
- Automotive-grade chip + SAS-certified eIM meet the strictest EU CRA framework

WHY KIGEN – THE SGP.32 AUTOMOTIVE EXPERT

Beyond methodology, a production-ready solution for EV makers go-global.

- Automotive-grade hardware – MFF2 /XS, -40°C-105°C, >17 years retention
- World's first GSMA eSA-certified eSIM for latest SGP.32 specifications, and SAS-SM certified eIM with industry-leading eSIM expertise
- Real-world validation with leading OEMs, from design to mass production (activation, switching, emergency, recovery)
- Successfully deployed, covering in more than 150 countries and trusted by 200+ network providers – Europe, SE Asia, Middle East
- Tested support for compliance with regional regulations.



DESIGN ONCE, DEPLOY GLOBALLY

Contact Kigen sales team for automotive eSIM samples and IoT eSIM Starter Kit



PLATFORM AND INTEGRATION CAPABILITIES

- Interoperability with top module and chipset solution vendors – ZTE, Qualcomm, Quectel, SIMCom, Fibocom, etc.
- Remote eSIM management capabilities with Open API 3.0 – full lifecycle recording and cybersecurity patching
- Support cloud, hosted or on-prem options, aligned with automaker's IT and regulatory needs

