

Kigen Automotive eSIM

Secure connected vehicles for the road ahead

Build once. Evolve connected fleets. Prepare security for the post-quantum era.

Secure, standards-current eSIMs for long-life connected fleets

Thank you for choosing Kigen to explore the exciting possibilities with Kigen's Automotive eSIMs.

What is Kigen Automotive eSIM?

Kigen Automotive eSIM combines the power-efficient Kigen eSIM OS with Infineon's 28 nm TEGRION™ SLI22 automotive security controller to provide a secure connectivity trust anchor designed for vehicles operating for a decade or more.

Its IP Ae architecture keeps eSIM IoT Profile Assistant provisioning logic inside the secure eSIM, **minimizing changes** to legacy Telematic Control Unit (TCU) application software. SGP.32 implementation with digital profile orchestration through Kigen eIM — **gives OEMs greater freedom** to provision, change, and manage connectivity remotely without physical SIM swaps. Kigen eSIMs offer a **consistent, secure architecture** across multiple vehicle classes and fleet applications.



94% of new cars sold globally are forecast to be connected by 2030

95M+ global automotive TCU units are forecast by 2030

\$3.30bn connected motorcycle market forecast for 2033, up from \$0.52bn in 2026

One platform across vehicle fleets

Kigen eSIMs provide a common OS lineage, hardware platform, development environment, and a management approach across Automotive, IoT, and Consumer, which helps OEMs reduce fragmentation across passenger cars, two-wheelers, commercial vehicles, and industrial fleets.

SLI22	Automotive - telematics, fleets and vehicle safety
SLM22	Industrial IoT - headless connected equipment
SLC22	Consumer - infotainment and consumer applications

Addressing eSIM operations for scale with:

- Direct and indirect profile download
- Digital activation-code workflows
- Remote profile enable, disable, and delete
- Emergency-profile handling
- Open API 3.0 and PQC ready eSIM test suite

Security for what comes next

Built for long-life connected vehicles

Qualified to AEC-Q100 with -40°C to +105°C operation, 17-year data retention, CC EAL6+ and ISO/SAE 21434 credential.

Support safety and regulatory architectures

Emergency-profile handling to support vehicle designs that address eCall and India's AIS-140 vehicle-tracking and passenger-safety mandate.

Prepare for post-quantum security

Kigen enables evaluation of hybrid classical and quantum-safe key establishment using its C-SDK, test eSIMs, and PQC-capable secure hardware.

Interoperable by design, tested, and trusted

Tested with 60+ Secure with Kigen modules, trusted by over 200+ terrestrial and satellite networks, and ready for digital activation with 20+ IoT networks.

Available in automotive-standard ETSI MFF2 packages, learn more at <https://kigen.com/contact/>