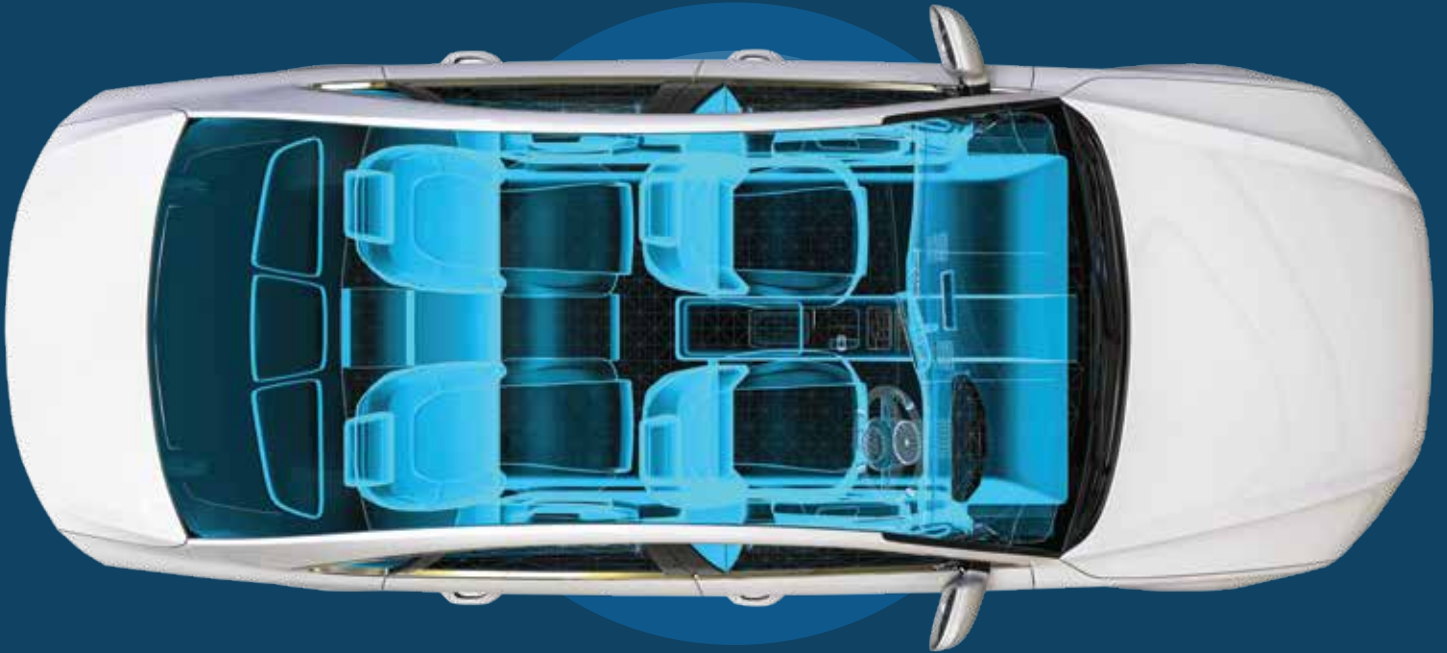


LANTRONIX Automotive Solutions



Lantronix offers expertise in engineering services and product development best practices to the automotive market. Automotive market needs go beyond solely focusing on automotive grade components – success requires bringing together hardware and software component solutions from a multitude of suppliers while ensuring a quality innovative product with longevity, durability, and reliability.

Lantronix's experience with various semiconductor manufacturers (Qualcomm, NXP, etc.) as well as multiple OS providers (QNX, Green Hills Software, Android & Linux) enables the team to develop flexible designs for major automotive sub-systems including Infortainment, Cluster/Control and Telematics.

Areas of Focus:



1. Telematics

- Integrating range of technologies for vehicle communication and precise tracking
- Wireless solutions; Cellular, Wi-Fi, Bluetooth, NFC & GNSS
- Qualcomm® C-V2X technology



2. Digital Cockpit

- Infotainment & cluster systems
- RTOS + hosted OSes
- Passenger entertainment
- Driver monitoring & vehicle status



3. Remote Device Management

- OTA updates
- Feature & data management
- Cloud connectivity

System Development & Integration:

1. Advanced system development leveraging the latest heterogenous SoCs from Qualcomm, NXP and others



- **End to end HW & SW support**
 - i. Multi-core SoCs, with ML/AI
 - ii. Diverse communication systems; Bluetooth, Wi-Fi, GPS, Cellular & Radio
 - iii. Advanced power management
 - iv. Device security, data authentication and access control

2. System partitioning with HW virtualization and SW hypervisors



- **Safety critical applications; secure, real-time**
 - i. RTOS support of QNX & Integrity (Green Hills Software)
 - ii. ISO26262 & ASIL compliant built on AutoSAR & μ -veIOSity
- **Infotainment applications; diverse, graphics heavy apps and UI**
 - i. HLOS support of Android & Linux

3. Advanced multi-media solutions



- **Multi-display partitioning**
 - i. Cluster
 - ii. HUD
 - iii. Rear/surround view mirror replacement
 - iv. Passenger/center console/rear-seat
- **Multi-camera vision**
 - i. Driver/occupant monitoring cameras
 - ii. Security/sentry/dash cameras
 - iii. Backup, surround view cameras
- **Advanced audio**
 - i. Multi-user phone, voice integration
 - ii. Speech control
 - iii. Premium sound

Design Services:



1. Your Automotive development partner offering flexible engagement models and engineering services tailored to your needs

2. Comprehensive product development

- i. HW design & manufacturing, from concept to volume production
- ii. SW development, from individual driver to full stack platform creation
- iii. ME & thermal design & manufacturing, from one off PoC to mass market turnkey devices

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