ADLINK

Intelligent In-Vehicle Solutions, Automotive-Grade Excellence

AI is transforming every aspect of automotive technology, enhancing safety, efficiency and user experience.

As a leader in high-performance automotive computing platforms, ADLINK empowers car developers with innovative solutions tailored to meet the unique and evolving demands of the industry.

With the increasing adoption of smart cockpit penetration rates in new vehicles, ADLINK ensures its platforms deliver integrated, intuitive and connected in-car experiences, providing immersive cabin experiences. By bridging the gap between current automotive technologies and the future of transportation, ADLINK remains committed to driving innovation and excellence in the industry.

Unlock Level 4 Autonomy with High-Performance Computing ECUs

The evolution of autonomous driving technologies is driven by advancements in AI, sensor development, automotive software, and infrastructure. From a

ADM-AL30

ADM-TJ30

ADM-IM10

vehicle hardware perspective, higher-level vehicles use significantly more sensors. For instance, some Level 4 autonomous vehicles use up to 40 perception sensors, requiring high computing power to process the large volumes of data they generate.

ADLINK's automotive driving platform, the **ADM-AL30**, embodies various features and engineering enhancements specifically designed to meet the demands of Level 4 solutions. Powered by the Intel® 12th Gen Core™ I processor and NVIDIA RTX 4000 SFF Ada, the system provides powerful data processing capability and real-time sensor fusion across camera, LiDAR and radar inputs. It incorporates 2x 10G Base-T Ethernet ports and 8x 1G Automotive Ethernet (Base T1) ports, offering cost-effective, lightweight cabling and high bandwidth for seamless imaging and sensor data processing. Additionally, the ADM-AL30 features 4x CAN 2.0 and 8x optional CAN FD ports, which are essential for reliable in-vehicle communication. It is E-Mark certified and has been successfully deployed by our partner, TIER IV, with hundreds of units in use, showing its proven reliability. Furthermore, it supports open-source autonomous driving software, such as Autoware, enhancing development flexibility.

Learn more about the collaboration between ADLINK & TIER IV

Fleet Management-Ready Solution for Commercial Vehicles

In addition to high-level self-driving technology, the advancement of Level 2 ADAS functions and relevant applications, such as fleet management, is experiencing significant growth. ADLINK's **ADM-TJ30** AI-ADAS solution stands out as one of the most integrated solutions for commercial vehicles, seamlessly incorporating ADAS functionalities.

With a single ECU connected to up to eight cameras, it offers functions like Around-View Monitoring, Blind Spot Detection, Forward Collision Warning and Driver Monitoring. This allows fleets to comply with current UN regulations, including UN R130, R131 and R151, while streamlining supply chain management by letting users work with a single vendor.

For enhanced fleet tracking and optimisation, vehicle-to-cloud connectivity is essential. The **ADM-IM10** is a compact in-vehicle telematics gateway designed to meet diverse communication needs. With E-Mark (12V/24V) compliance and ISO-7637-2 automotive certification, this gateway ensures reliability and safety. In collaboration with **Carota**, a leading software company specialising in OTA and fleet management solutions, ADLINK showcases the Fleet Management-Ready Solution. This solution facilitates remote diagnostics and over-the-air updates for fleet maintenance, as well as real-time tracking and event video analysis to enhance driver safety.

Steer Into Immersive Control with the Smart Cockpit Domain Controller

The adoption of smart cockpits in new cars is significantly increasing, making them a key trend in today's automotive technology development. ADLINK fosters smart cockpit innovation in partnership with AUO, a leading display manufacturer. ADLINK's cockpit domain controllers are powered by Qualcomm SoCs, offering outstanding computing capability and

Drive into the Future with ADM: ADLINK's Automotive Solutions

seamlessly integrating digital dashboards, human-machine interfaces (HMIs), head-up displays (HUDs) and in-car infotainment systems, providing a user-friendly and immersive driving experience for future mobility. It supports more than 3 display connections and up to 6 channels of camera connections, meeting most of the mainstream industry demands.

ADLINK ensures excellence in automotive manufacturing by aligning its production capabilities with industry standards. Its automotive-grade production line is certified to IATF-16949 and features Tier 1-ready production with cutting-edge equipment, a class 100,000 cleanroom and a no-touch process. Its high-mix, low-volume manufacturing ensures tailored, reliable and safe solutions for diverse automotive applications.

The development of AI for safer, more efficient and more personalised driving experiences is significantly changing the automotive industry. By providing automotive-grade computing hardware, ADLINK is dedicated to improving not only safety and efficiency but also delivering immersive in-cabin experiences.

Visit the **ADLINK website** or contact us at **nca_marketing@adlinktech.com** to learn more

ADLINK
LEADING EDGE COMPUTING

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ADM

In-Vehicle Intelligence,
Automotive-Grade Excellence

ADLINK ADM Series reshapes the future of mobility with comprehensive solutions in ADAS, cockpit innovation, and autonomous driving.

- Automotive-Grade Quality
- High-Mix, Low-Volume Flexibility
- 30+ Years of Embedded Expertise