ADLINK Makes Your Fleet Smarter

Advancements in AI, computer vision, and machine learning have revolutionized self-driving capabilities in cars. However, managing vast sensor data with minimal latency remains a crucial challenge in autonomous driving technology. For this reason, integrating a reliable edge computing system proves essential to optimize the performance of perception and prediction algorithms.

ADLINK offers cutting-edge autonomous driving computing platforms, ensuring robust computing capabilities for autonomous and ADAS technologies, along with a rugged design for automotive use. Our comprehensive solutions cater to evolving market needs, and embraces the future of automotive innovation.

Core Competence

Automotive-grade Quality
ADLINK hosts a specialized production line meticulously designed for automotive products, following IATF-16949 and ISO 26262 standards.

Collaborative Alliance
SoC partners：Intel, NVIDIA, NXP, TI, RENESAS, Qualcomm

Innovative Design Capability
ADLINK complies with both ISO 7637 and ISO 16750 standards. Our automotive products are specifically made with redundant power supplies and anti-shock vibration features.

Focus Application

Autonomous Driving   AI-ADAS   Smart Cockpit

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EDGE AI COMPUTING FOR AUTOMOTIVE

The Automotive Grade Hardware Solution

Autonomous Computing Platform
AI-ADAS
Smart Cockpit

Edge-AI Computers for Autonomous Vehicles

The ADLINK ECU offers powerful processing power and AI acceleration needed to process data from multiple sensors, including LiDARs, radars, and cameras. We are commited to provide AI-accelerated computing systems that allows real-time data processing in commercial autonomous vehicles, such as freight trucks, shuttle buses, taxis, and even heavy-duty vehicles like mining trucks.

AI Decision Making ECU for Autonomous Driving

ADM-AL30
- Intel® 12th Gen Core i9/i7 CPU
- NVIDIA RTX 4000 SFF
- Automotive Ethernet: 2x 10G Base-T and 8x 1G Base-T1
- 4x CAN 2.0; 8x CAN FD (optional with M.2 CAN module)
- ISO 16750-2, ISO 7637-2 Design Compliance

Heterogeneous Computing Platform for Autonomous Vehicle

ADM-SR70
- Intel Sapphire Rapids server-grade CPU
- Infineon TC397 safety MCU
- Support 8x CAN-FD
- Designed for 12-16x GMSL2 input carrier board
- Time synchronization support via IEEE 1588v2 PTP

The Road to Autonomy

Real-time Computing
- Intel® Xeon®, Core® compute platform
- NVIDIA Jetson AGX Orin, RTX series

Automotive Design
- Ethernet: 10G Base-T, 1G Base-T1
- CAN-FD
- Ignition control

Safety & Reliability
- Redundant design
- Safety MCU: Infineon TC397
- Anti-shock vibration design with automotive connectors: Molex, Amphenol, TE

AI-ADAS Technology

To prevent accidents, commercial cars use a variety of ADAS features, including blind spot detection, lane departure warning, and forward collision warning. The ADLINK AI-ADAS solution supports multiple level 0-2+ ADAS functions including AVM, BSIS/BSD, DMS, LDW, FCW, etc.

Additionally, real-time information on the location, speed, and driving habits are collected by ADLINK telematics technology. Fleet managers may leverage the data to improve operational efficiency, optimize routing, track vehicle performance, and maintain driver safety.

Fleet Management Vehicle Gateway

ADM-IM10
- i.MX 8M Plus CPU with 9-36v power input, MCU ignition control
- Wide operating temperature range: -40°C to 85°C
- Palm sized design: 130mm x 110mm x 40mm
- 1x HDC(DB26) with 2x CAN, audio, Mic-in, 2x RS232
- 2x 10/100/1000 Mbps ethernet ports, RJ45
- Capable with 1x WiFi6 and 1x LTE/5G M.2 module

All in one AI-ADAS ECU

ADM-TJ30
- TI TDA4V MidEco
- Support 4x CAN/ CAN-FD
- 1G Base-T, 100M Base-T1
- Comply with ISO 16750-4/ IEC 60068-2/ ISO 16750-2/ ISO 10605/ VSCC 56-3
- FPD link camera

All in one AI-ADAS Solution

- All in one system for 360-degree and in-cabin ADAS solution with automotive-grade camera & ECU.
- Support multiple level 0-2+ ADAS functions including AVM, BSIS/BSD,DMS, LDW, FCW, etc.
- Comply with UN regulation for large commercial vehicle (UN R130, R151, R159)

Smart Cockpit

In collaboration with AUO, a leading display manufacturer, ADLINK stands at the forefront of smart cockpit innovation. The domain controller ADM-Q95 enables function integration for cluster, Central Information Display (CID), Driver Monitoring System (DMS) and passenger infotainment system. This ensures seamless fusion and reduces the number of control units simultaneously installed.

Smart Cockpit Domain Controller
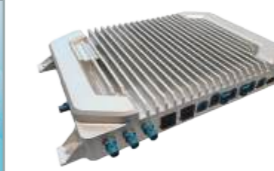
ADM-Q55
- Builds with Qualcomm SA7255P SoC
- Supports QNX OS/ Hypervisor + Android
- 1x 1000base-T1 Automotive Ethernet
- 3x GMSL for cockpit displays
- Allows for up to 6x GMSL camera for AVM, DMS and OMS
- Compatibles with WiFi6, BT, GNSS, AM/FM
- 2x CAN + 1x LIN for automotive connections

Automotive Grade Cockpit Domain Controller

Functional Safety ARM-based SoC and MCU
- Qualcomm SA7255P with ASIL-B level
- NXP S32K

Low-latency Image Interface
- SerDes (Serializer/Deserializer) design for high solution displays and multiple cameras.

Automotive Design
- Low standby power
- Ignition control
- Durable Fakra connectors
- CAN –FD, LIN
- A2B audio interface