

## 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

### Global Headquarters

**ADLINK Technology, Inc.**  
 No. 66, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan

Tel: +886-3-216-5088  
 Fax: +886-3-328-5706

f in @ X [www.adlinktech.com](http://www.adlinktech.com)

### Worldwide Offices

#### Ampro ADLINK Technology, Inc.

6450 Via Del Oro, San Jose, CA 95119, USA  
 Tel: +1-408-360-0200  
 Toll Free: +1-800-966-5200  
 Fax: +1-408-600-1189

#### ADLINK Technology (China) Co., Ltd.

300 Fang Chun Rd., Zhangjiang Hi-Tech Park, Pudong New Area, Shanghai, 201203 China  
 Tel: +86-21-5132-8988  
 Fax: +86-21-5192-3588

#### ADLINK Technology GmbH

Hans-Thoma-Straße 11  
 68163 Mannheim, Germany  
 Tel: +49-621-43214-0  
 Fax: +49-621-43214-30

#### ADLINK Technology Japan Corporation (Tokyo Office)

KDX Kanda Ekimae Bldg. 4F, 3-7-4 Kanda Kajicho, Chiyoda-ku, Tokyo 101-0045, Japan  
 Tel: +81-3-5209-6001  
 Fax: +81-3-5209-6013

#### ADLINK Technology Beijing

Rm. 801, Power Creative E, No. 1, Shang Di East Rd., Beijing, 100085 China  
 Tel: +86-10-5885-8666  
 Fax: +86-10-5885-8626

#### ADLINK Technology GmbH (Healthcare Business Center)

Ulrichsbergerstraße 17  
 94469 Deggenedorf, Germany  
 Tel: +49-991-29094-10

#### ADLINK Technology Japan Corporation (Nagoya office)

LINKS Meieki Bldg. 3F, 5-31-10 Meieki, Nakamura-ku, Nagoya-city, Aichi 450-0002, Japan  
 Tel: +81-52-589-9018  
 Fax: +81-52-583-2807

#### ADLINK Technology Shenzhen

2F, C Block, Bldg. A1, Cyber-Tech Zone, Gao Xin Ave. Sec. 7, High-Tech Industrial Park S., Shenzhen, 518057 Chin  
 Tel: +86-755-2643-4858  
 Fax: +86-755-2664-6353

#### ADLINK Technology, Inc. (UK Liaison Office)

First Floor West Exeter House, Chichester fields Business Park, Tangmere, West Sussex, PO20 2FU, United Kingdom  
 Tel: +44-1243-859677

#### ADLINK Technology Korea Ltd.

A-1503, U-TOWER, 767 Sinsu-ro, Sujegu, Yongin-si, Gyeonggi-do, Republic of Korea, 16827  
 Tel: +82-31-786-0585  
 Fax: +82-31-786-0583

#### ADLINK Technology Nanjing

Rm. 1908, 105 Zhongshan N Rd, Gulou, Nanjing, Jiangsu, China, 210093  
 Tel: +86-25-86652110  
 Fax: +86-25-86652110

#### ADLINK Technology, Inc. (Israel Liaison Office)

2F, C Block, Bldg. A1, Cyber-Tech Zone, Gao Xin Ave. Sec. 7, High-Tech Industrial Park S., Shenzhen, 518057 Chin  
 Tel: +86-755-2643-4858  
 Fax: +86-755-2664-6353

#### ADLINK Technology Singapore Pte. Ltd.

1008 Toa Payoh North, 07-17/18 Singapore 318996  
 Tel: +65-6844-2261  
 Fax: +65-6844-2263

#### ADLINK Technology Chengdu

Rm. 4207, 500 Tianfu Blvd Middle Section, Wuhou District, Chengdu, Sichuan, China, 610023  
 Tel: +86-28-85216698  
 Fax: +86-28-85258206

#### ZettaScale Technology Limited

Suite 1, First Floor, The Honeycomb, The Watermark, Gateshead, Tyne & Wear, United Kingdom, NE11 9SZ  
 Tel: +44 (0) 191-4979900

#### ADLINK Technology Singapore Pte. Ltd. (Indian Liaison Office)

#50-56, First Floor, Spearhead Towers, Margosa Main Road (between 16th/17th Cross), Malleswaram, Bangalore-560 055, India  
 Tel: +91-80-4224-6107, +91-80-2346-4606  
 Fax: +91-80-2346-4606

#### ZettaScale Technology SARL

Bâtiment Thalès – Parc des Algorithmes  
 Route de l'Orme des Merisiers,  
 91190 SAINT AUBIN, France  
 Tel: +33(0) 1 60 12 35 66  
 Fax: +33(0) 1 60 12 35 66

#### ZettaScale Technology B.V.

Amarilstraat 30,  
 7554TV Hengelo (OV), Netherlands  
 Tel: +31-(0)-7424-72570



## 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 committed 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

## 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

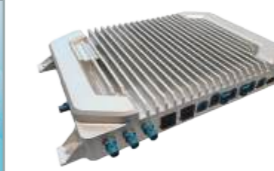
## All in one AI-ADAS Solution

- 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-Q95

- 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 resolution displays and multiple cameras.



### Automotive Design

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

## 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