AN ADAS ECU SOLUTION FOR AUTONOMOUS DRIVING

AVL Ajunic

THE CHALLENGE

We were looking for an open hardware solution that is adaptable and fits our customers' needs. Now we are the first provider on the market with this kind of solution.

THE SOLUTION

AVL's Ajunic is an open development platform which is customizable for your application. It ensures a shorter development time while being safe and secure.

Furthermore, it is adaptable for prototype and series production. The platform includes ADAS/AD perception, fusion and motion control, ground truth data recording and life object detection.

ADDED VALUE

- Robustly built with automotive qualified components ready to be installed in your vehicle
- Fully customizable hardware and software
- Use it for your prototype, adaptable as needed according to your requirements for a series solution
- Ready for ISO 26262 conformant solutions. Independent dual channel processing and up to triple power supply possible
- Software options include Linux, ROS, (classic) AUTOSAR, adaptive AUTOSAR
- Solutions for safety and security enabled operating systems available

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www.avl.com/ajunic

THE PLATFORM
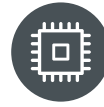
Performance:
Flexible and scalable high-performance processing power

Connectivity:
Ready for various ADAS/AD sensor setups

Functional Safety:
- Hardware design based on safety requirements
- Design can be used as a base for safety relevant projects up to ASIL-D

Customization:
- Modular approach offers options of customization
- A variety of operating systems and middle-layers are supported

Start of production (SOP):
Automotive components and ISO 26262 enable SOP

TECHNICAL DATA

Controller:	– Powerful multicore SoC processors with multiple hardware accelerator assembled to customer's needs – Safety controller (Aurix) – Neuronal network acceleration hardware for AI and object detection networks	Interfaces:	– GMSL – CAN/CAN-FD – FlexRay and LIN – Gbit automotive and standard ethernet – HDMI/PCI-E – USB 2.0/3.0
Power:	– For 12 V and 24 V board-nets – Power consumption: < 80 W	Dimensions and weight:	– 325 x 320 x 47 mm (l x w x h) – 2.8 kg

FIND OUT MORE

AVL Software and Functions GmbH
Im Gewerbepark B29, 93059 Regensburg, Germany

E-Mail: ajunic@avl.com
www.avl-functions.com