AUTOCRUIS

自行科技

Shenzhen Autocruis Co.,Ltd.

Company Introduction

Autocruis is an intelligent automotive electronic high-tech enterprise focusing on Autonomous driving and ADAS. Since 2013, the company has continued to force in the field of automatic driving.

Relying on the computer vision technology based on the deep learning neural network, Autocruis developed the FPGA -based embedded Forward ADAS System, Driver Monitoring System (DMS) and Blind Zone Management System , which meet the core requirements of the intelligent vehicle front loading.

The company is one of the few enterprises in China that master automatic driving and ADAS algorithm and realize mass production.With tens of millions of financing, Autocruis is the global (FPGA) strategic partner of Xilinx and driver monitoring system software supplier of BOSCH China ！

PRODUCTS AND SOLUTIONS

Forward ADAS - Driver Monitoring System - 360 Surround View System

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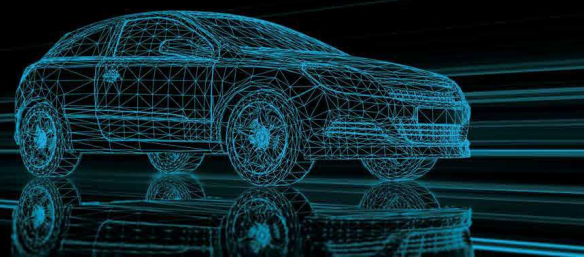

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ADAS products and solutions based on deep learning technology embedded in FPGA

Products

- Forward ADAS System (FCW/PCW/LDW/AEB/TSR etc), fulfilling relative standards domestic and for- eign (Such as JT/T 1094、GB 26773、ISO 15623、 NCAP test protocols, etc...)
- Direct Driver Monitoring System, including 2 functions : Driver Drowsiness Warning and Driver Identity Recognition
- SD/HD 360° Surround View System

Distinctiveness

- Intelligent Algorithm : Deep learning algorithm represented by convolution neural network
  - High performance: real time and high quality
  - High robustness: stable in different conditions
  - High intelligence: semantic modeling
- Hardware platform: Platform based on FPGA
  - High efficiency & Low cost: Compared with PX2(GPU
  - Low dissipation: Calculation capacity of Flops in T level<5W

Company

- Focus on automotive electronics/ADAS/Autonomous driving, rich achievements on research of embedded artificial intelligence;
- Great accumulation of algorithm and product research. 2 R&D center in Shenzhen and Wuhan. Products have been already launched in CV&PV market.

Use cases (ex)

Forward ADAS
Pedestrian & abnormal vehicles

Forward ADAS
Bad weather as rainy

Driver Monitoring
Driver wearing glasses

Driver Monitoring
Night or weak light

Product Competitive Edge

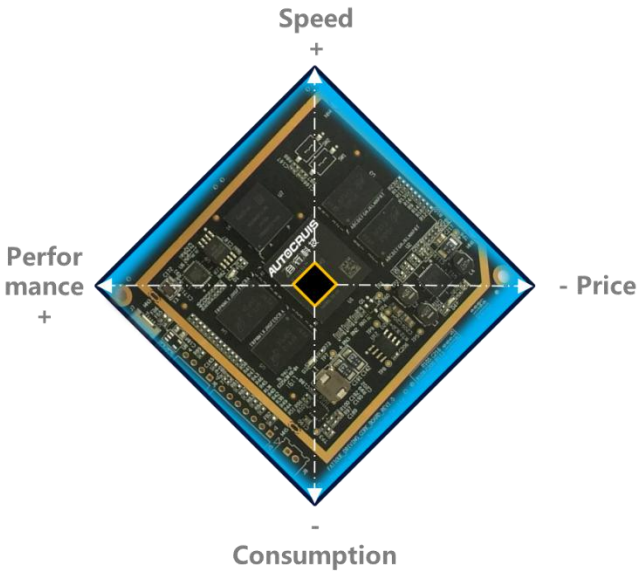
High performance - High speed - Low cost - Low consumption

Reliability	Performance Speed	Consumption Cost	Standardization
• Sensors+processing board with car rules-grade • Software system with car rules-grade	• high efficiency of algorithm network • High computational power of hardware structure • Diversity of detection objects and conditions	• Modules and systems with low consumption • Production and installation with low cost	• Compliance with industry standards（GB/ISO） • Standardized test procedure • Use experience based HMI design

DL+FPGA+Mono.Vision

ADAS modules and systems fulfilling the developing OEM demands

- By **Deep Learning**，realize "the algorithm core" in auto-driving step by step
- By **FPGA**, realize "the computing core" in auto-driving step by step
- By **Monocular Vision**, fuse other sensors like radar, lidar...step by step.



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了解自动驾驶
从自行科技前沿开始！