



Automotive Computing Platform

moveOn™ UAC-600R

Autonomous Driving Computer

Key Features

- Qualcomm Automotive SoC
- Deep Learning Accelerators up to 600TOPs
- Fail Silence Redundant Architecture
- 10Gbase-T1 Automotive Ethernet Interface
- 8 Channel GMSL2 Interface
- High precision dead reckoning GNSS
- 4 Channel CAN-FD
- 4 Channel LIN Master
- 5G Network

Introduction

moveOn™ UAC-600R Developer Kit is designed with Qualcomm® Snapdragon™ Automotive SoC as the main processor. Qualcomm® is designed on a 7nm process to provide superior performance with minimal power consumption. In order to ensure the safety required for autonomous driving systems of Lv.4 or more, a redundant structure is adopted in which two high-performance application processors each operate an independent system. In addition, the parallel NPU design allows for AI performance of up to 600 TOPs, providing real-time processing of recognition and judgment on various sensor inputs required for autonomous driving.

UAC-600R Developer Kit allows input of up to 8 camera sensors through the GMSL2 interface.

Supports a total of 12 Ethernet ports, including 10GBase-T1. USB2.0 and 3.0 external In addition to the interface and DisplayPort 1.4, it supports various interfaces such as CAN-FD and LIN Master for vehicles.

For high-precision positioning, it supports the requirements for highly autonomous driving by embedding GNSS reception capable of Network RTK and Moving-Base RTK based on dead reckoning and a 5G modem for wireless communication.

The **UAC-600R Developer Kit**, which has high performance, high reliability, and various expandability for autonomous driving, comes with an SDK based on Automotive Grade Linux and enables flexible development and quick application of autonomous driving applications, including deep learning.