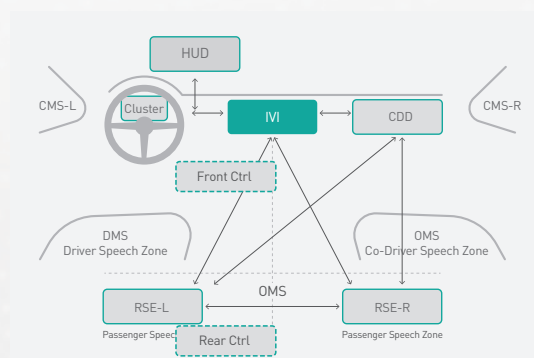# ▶ nGene 3H – Intelligent Cockpit Domain Controller

The Intelligent cockpit domain controller aiming at the era of cross-domain fusion, achieving the combination of cockpit and autonomous driving, offering users an exceptional human-machine co-driving experience.

⟩ Technical Details

- SoC: Qualcomm's next Gen chip platform 8255, 2X CPU and 3X NPU performance up compare with current generation chip
- Displays: configurable display numbers to fit for customer needs
- Support Android Codec 2.0 and Linux GStreamer codec
- Multi OS support base on the high performance and high efficiency Hypervisor technology
- Travel services: support AR-HUD, CMS, DMS/OMS, AVM and AVM
- Voice recognition: support multi-zone voice recognition and configurable multi- channel audio output
- Smartphone connectivity: CarPlay, CarLife, HiCar, etc
- Ecosystem: support both Tencent TAI3.0, Banma AliOS and other 3rd party ecosystem
- Apps: supports both local and online media application

⟩ Features

- Configurable Multi-screen display and interaction – center stack display, cluster, HUD and co-driver display
- Unify cockpit and parking solution, support AVP feature
- State-of-the-art interaction technology - multimodal interaction, emotion detection and intelligent voice recognition
- Adopted with empathy engine, multimodal interaction and machine learning technology
- Extendable and customizable application for vehicle control, smartphone connectivity, OTA, etc.
- State-of-the-art debugging toolchain for the critical memory and performance issues resolution

⟩ Application

- Utilizing the state-of-the-art technology to provide high performance solution to improve the user's driving experience
- Customizable and extendable solution to fit for different OEM needs, while keep full compliance to the FuSA and cyber security requirement of the product