nCCU – Central Computing Units

A system-level product with modularity, easy pluggability, and high flexibility

> Technical Details

- System level: modular structure, easy-to-plug
- Function level: support multiple domains and flexible combination of domain functions including cockpit, autonomous driving, gateway
 and body control
- Fusion capability: support inter-chip and intra-chip fusions while meeting the real-time and functional safety level needs
- Structure: rack + daughterboard fit for customize needs and continuing upgrade
- Software level: hardware independent middleware solution for central computing (JMT)

> Features

- The central computing unit solution fit for the centralized E/E architecture
- This E/E architecture features efficient communication mechanisms, rational allocation of HW resources, and optimized spatial layout
- Supports "Cockpit + ADAS" domain fusion, which can be key approach towards a central supercomputer



> Differential thoughts of JOYNEXT

With rich R&D and mass production experience in autonomous driving, intelligent cockpit and intelligent connected vehicle (ICV), JOYNEXT is able to provide various chip solutions to meet the diverse needs of different OEMs. In the future era of intelligent vehicles, JOYNEXT is committed to the hardware-based solution that deeply integrates software and hardware. Specifically, a multicore, heterogeneity hardware platform will be created, with high-level hardware and software decoupling enabled by middleware. The interface side will be standardized and opened up further, thus providing a more flexible software development platform and a more efficient hardware solution.