

Customer Case

JOYNEXT nGene Series Intelligent Cockpit

Welcome!



▶ JOYNEXT nGene – Intelligent Cockpit Solution

▶ The World-leading CDC Supplier for Top Automakers

Product Groups	Segments/ Products	Before 2025	2025	2026	2027	2028	2029
Central Computing Unit (CCU)	High			nGene 4 ▶ SA8X97 Linux/QNX + Android, 16 Displays, AI 7B+ VLM, L2++ ADAS			
	Middle	nGene 2 SA8155 Linux + Android	nGene 3.5H ▶ MT867x, QCM8x38 Linux + Android, 6~10 Displays, AI 2B+ VLM, 5G				
Cockpit Domain Controller (CDC)	Middle		nGene 3H ▶ SA8255/8775, MT2716/8 Linux/QNX + Android, 6~10 Displays, AI 2B+ VLM, L2+ ADAS				
	Entry	nGene 2E Kirin 9610 Harmony OS	nGene 3E ▶ MT271x Linux/QNX + Android, 2~3 Displays	nGene 3.5E ▶ MT8668, QCM7738 Linux + Android, 2~3 Displays, 4G/5G			

- ⦿ **Diversified Product Variants:** These variants lead the new era of vehicle cockpits with solutions including IVI (In-Vehicle Infotainment System), AED (Android Embedded for Automotive), CDC (Cockpit Domain Controller)
- ⦿ **Next-generation Cross-domain Fusion Platforms:** cockpit & connectivity, cockpit & autonomous driving
- ⦿ **AI Equipped Empathy Cockpit:** It is integrated with local and cloud-based AI models; providing personalized, empathic 3rd Space UX through multimodal interaction technology
- ⦿ **System Level Platform Design:** It supports both global and Chinese chipsets (Qualcomm/MTK/SemiDrive/Huawei), as well as SOA implementation
- ⦿ **Global Market Production Capability:** We have hands-on experience with global regulations (EUTA, UNECE, etc.) and support global ecosystem integration (Google GAS, Banma, Tinnova, etc.).



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Dual systems intelligent cockpit solution based on the 3rd chip platform of Qualcomm to support a diverse local ecosystem, offering full-scenario user experience of Intelligent cockpit, while keeping full compliance to the FuSA and cybersecurity requirements of the product.

◎ Supporting all-around intelligent cockpit domain functions

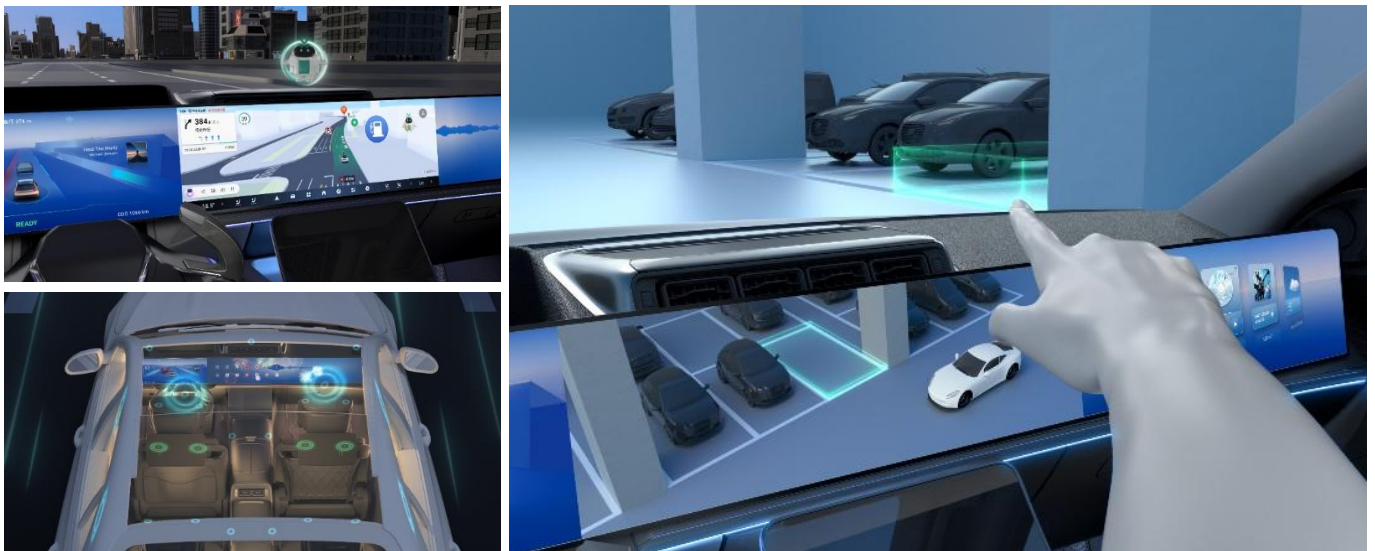
- Configurable multi-screen display and interaction
- Driver fatigue monitoring, dangerous behavior monitoring, gesture recognition, emotion recognition, etc.
- Passenger gesture recognition, emotion recognition, child/pet/object recognition, etc.

◎ Enhancing driving safety

- Unified solution for cockpit and parking (AVP support), backed by ASIL-B functional safety
- Compact mechanical design to minimize occupation space and reduce product weight

◎ AI-based multi-modal interaction for a personalized third space

- It combines with empathy engine to create intelligent virtual assistant that accompanies and proactively cares about users in all scenarios throughout the journey



► Customer Case – nGene2H Intelligent Cockpit

► One of the Top supplier of Volkswagen Group Platforms

◎ Serving global markets

- Localizing manufacturing and services
- Ensuring Compliance in European and Chinese markets
- Strengthening supply chain management by offering solutions to large automotive platforms
- Supplying over 20 models, brand incl. Volkswagen, SEAT, Skoda, AUDI, Porsche, Bentley, etc.

◎ Meeting customized needs in the Chinese market through innovation

- Launching the first dual-system IVI solution: Linux + Android / Linux + AliOS
- Offering a quicker-to-market Android embedded solution for luxury brands

◎ In-depth cooperation with Qualcomm to develop leading infotainment systems



► About JOYNEXT

> Company introduction

JOYNEXT is a leading AutoTech company, the Automotive Connectivity BU of JOYSON Electronics. Headquartered in China, we have 1,700+ employees across 5 R&D centers, 3 global manufacturing locations, and 9 customer centers around the world.

We develop technologies for intelligent connected vehicles and provide a highly personalized mobility experience that is empathic, safe, and adaptable. With over two decades of experience as a Tier-1 supplier to the world's top automotive makers, we have established and maintained long-term partnerships with leading automotive brands, such as VOLKSWAGEN, Audi, BMW, NIO, BYD, Toyota, etc.

JOYNEXT intelligent cockpit and smart connectivity solutions have been applied in over 24 million vehicles globally. In response to the trend of transformation in the intelligent automotive industry, JOYNEXT continues to expand technological boundaries to facilitate industrial development. The company proactively develops cockpit-driving fusion solutions for central computing, embracing the future development trend of multi-domain integration.

With a dual focus on innovation and sustainable development, JOYNEXT actively work with several ecological partners such as HUAWEI, Qualcomm, Horizon Robotics, Black Sesame Technologies, Momenta, QNX, Elektrobit, and Baolong to jointly promote the transformation of the intelligent automobile industry and continue to shape the mode of travel for generations.

► Contact Us

For any suggestions or questions, please scan the following QR code to contact us.

Email: contact@joynext.com



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