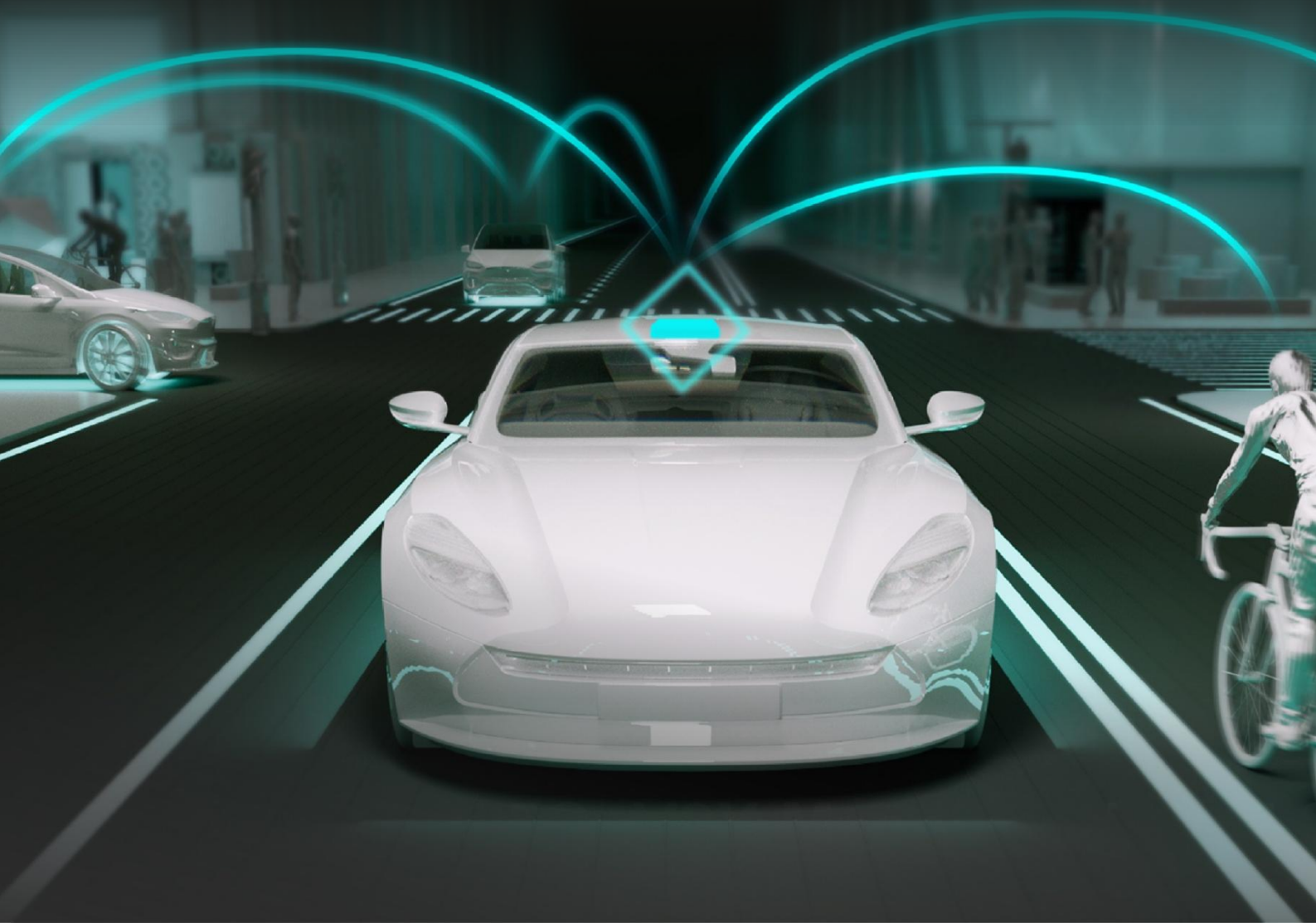


Customer Case

JOYNEXT nVision Series 5G+V2X Telematics Module

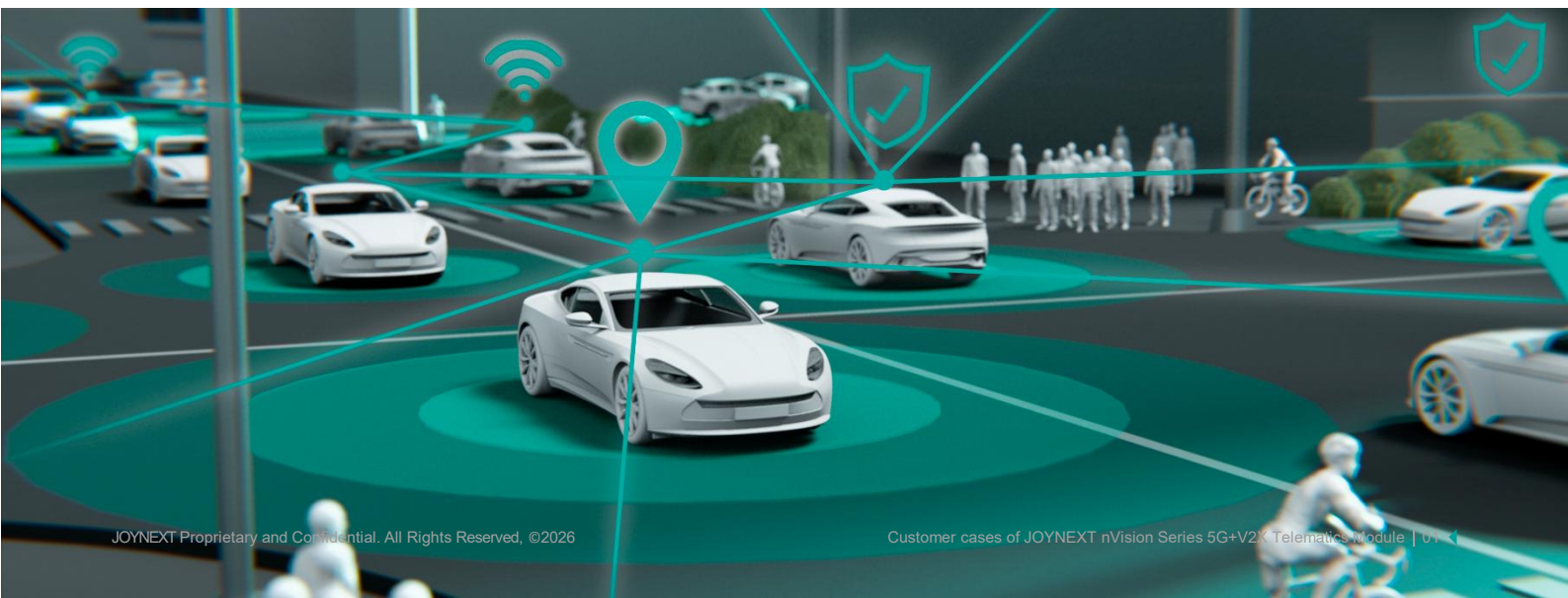


▶ JOYNEXT nVision – 5G+V2X Telematics Module

▶ Pioneer in 5G+V2X Technology Mass Production

Product Groups	Before 2025	2025	2026	2027	2028	2029
TCU	<p>nVision 3/4</p> <p>▶ 3GPP R15/16 5G 5G, V2X, UWB, Global Tuner NAD: SA515/522M, MT2735</p>	<p>nVision 5H</p> <p>▶ 3GPP R17/18 5G-A DSDA, AI Network, NR-V2X, Satellite & Walkie-talkie NAD: SA525/535M, MT2739, Alternatives</p>		<p>nVision 5E</p> <p>▶ 3GPP R17 5G Redcap Mini Size NAD: SA510M, ASR1903</p>		

- 🕒 **5G technology leader:** First in the world to achieve mass production of 5G+V2X technology; leader in 3GPP R17, satellite communication, and new lightweight RedCap 5G products
- 🕒 **V2X technology leader:** Proprietary V2X protocol stack and applications, supporting all Day 1 and Day 2 scenarios defined by CSAE, SAE, and ETSI, as well as OEM-customized scenarios
- 🕒 **Global mass production:** Complies with e-Call and global regulatory certifications; supports global wireless broadcast and satellite communication protocols
- 🕒 **Multimodal product variants:** Multifunctional RF, antenna, and digital signal processing capabilities that significantly enhancing communication performance and antenna efficiency; supports digital smart antennas (both shark fin and flat types)



▶ JOYNEXT nVision – 5G+V2X Telematics Module

> Pioneer in 5G+V2X Technology Mass Production

⦿ Features

- Supports 3GPP R16 5G communication
- Supports C-V2X communication
- Supports customized connectivity services: remote vehicle control, remote monitoring, emergency assistance, and roadside assistance (e-Call, b-Call)
- Supports dual-band GNSS high-precision positioning
- Digital key: BLE/ NFC/ UWB solution
- Tuner: AM/ FM/ DAB/ Sirius XM
- Update: OTA

⦿ Technical details

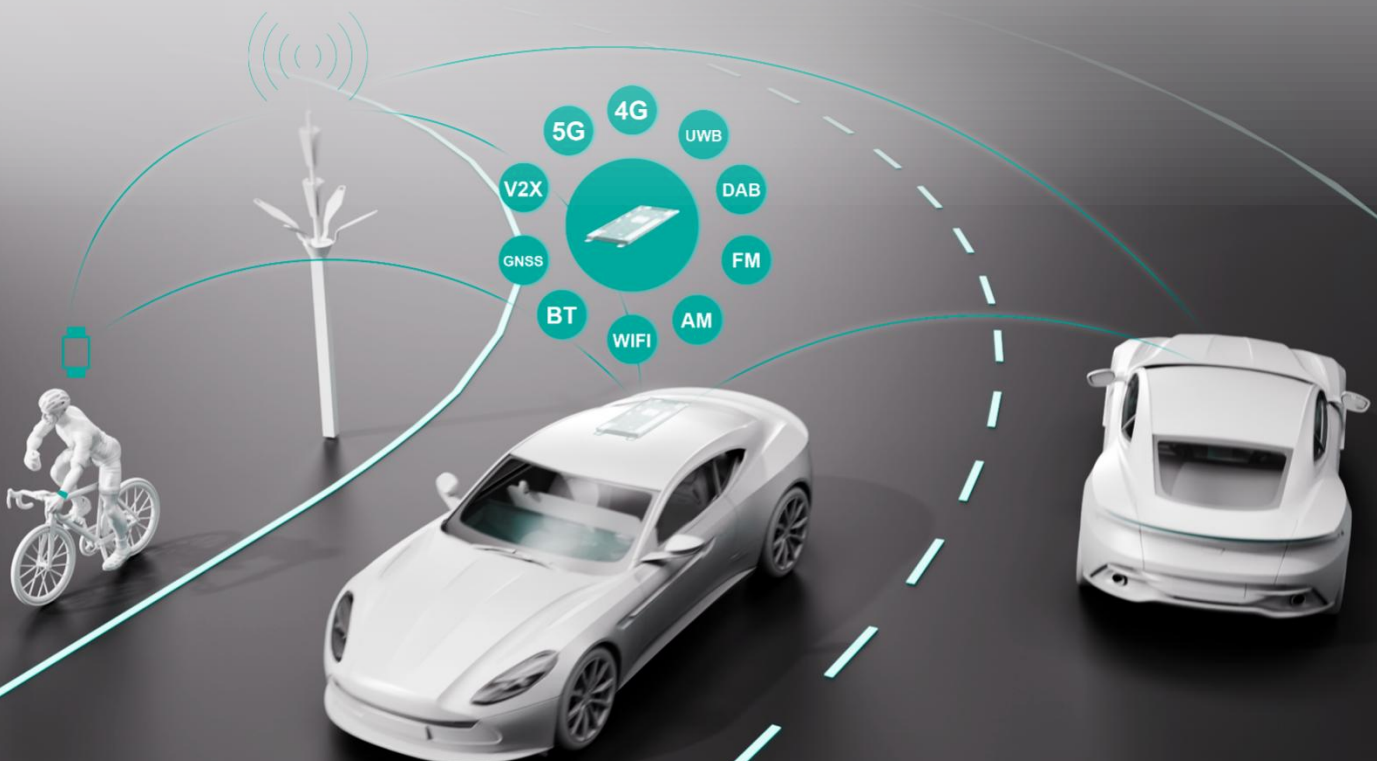
- Main chip: Qualcomm SA522M, 10~20k DMIPS high computing power, no extra AP needed
- Product type: shark-fin type smart antenna, flat box type smart antenna & traditional Tbox
- Size (shark-fin type smart antenna): 260*160*14.5 mm (shark fin is 65mm high)
- Size (traditional Tbox): 200*85*25 mm
- Weight: shark-fin type smart antenna 700g, flat box type smart antenna 560g, traditional Tbox 470g
- Interface: ETH(2.5Gb), CAN
- Supports 'Container' & 'Hypervisor' isolation solution
- Supports global market V2X standard (CN/ EU/ NA)
- Supports customized V2X scenarios



► Customer Case – nVision4 5G+V2X Telematics Module

► Providing solutions to a series of vehicle brands for a world-leading OEM

- ◉ **Adopted by around 8 million vehicles worldwide across the lifetime.**
- ◉ **Mature solutions integrating 5G+V2X and digital smart antenna**
 - Where 5G, V2X, telematics services, high-precision positioning, CAN and Ethernet communication are highly integrated
- ◉ **Compliance with multiple standards**
 - World's first mass-produced product based on NR-V2X (3GPP-R16)
 - Standard V2X scenarios as defined by ETSI/SAE standards
 - One of the few suppliers that meet both DSRC and C-V2X standards



► 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.

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