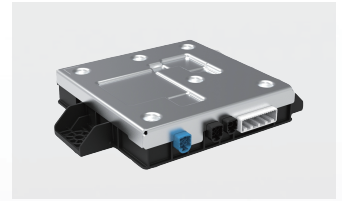# nVision 3 – 5G+V2X Telematics Module

JOYNEXT is one of the market-leading mass producers of 5G+V2X technologies. The 5G+V2X solution integrates communication and network technologies to realize the collaboration between the 'vehicle' and all traffic participants, capable of complex environment detection, intelligent decision-making, and collaborative control.

Technical Details

- Main chip: Qualcomm SA515M
- Support 17 V2X Day1 scenarios
- Protection level IP5k2
- Support ETH (1000Mb), CAN, CAN FD
- Support customized V2X scenario

Features

- Support 5G communication
- Support C-V2X communication
- Support customized connectivity services: remote vehicle control, remote monitoring, emergency assistance, and roadside assistance (e-Call, b-Call)
- Support dual-band GNSS positioning
- Update: OTA
- V2X scenarios: forward collision warning, blind area/lane change assistance, emergency braking warning, left turn assistance, vulnerable traffic participant warning, speed guidance based on signal lights, congestion warning ahead, etc.
- Part of Day2 scenarios, such as: collaborative lane change, collaborative vehicle import, perception data sharing, if traffic participants pass safely, etc

Collaborative Lane Change

Collaborative Merging

Blind Spot Warning

Left Turn Assist

Vulnerable Road User Warning

Traffic Jam Warning