

# V2X Communication Platform Technology

## Technology Overview

- This provides V2X communication hardware and real time software technology to implement On-Board Equipment and Road-Side Equipment for vehicle safety and C-ITS applications. It supports Vehicle to Vehicle (V2V) and Vehicle to Infrastructure (V2I) communication to be compatible with WAVE standard.

## Core Technologies

- 5.9 GHz Dual RF transceiver technology
- IEEE 802.11p MAC and Modem technology
- Linux based WAVE communication protocol stack: IEEE 1609.3 & 4
- Fast authentication and security to meet IEEE 1609.2

## Application Area and Advantages

- Real-time vehicle data collection
- V2V based anti-collision warning system
- Intersection safety system

## Accomplishments

- It has been applied for Smart Highway project
- S-WAVE chip developed with RANIX
- Backward compatible to Korea DSRC

