

5G O-RAN: Making Light Rail Transit Safer

An Intelligent Light Rail Intersection Safety Assistance System Using 5G Internet of Vehicles Technology

Trains have occasionally collided with vehicles and scooters violating traffic rules since the light rail began operations. A light rail intersection safety assistance system was established utilizing the low latency of 5G combined with the virtual RSU technology of Chunghwa Telecom, which examines intersection risk events for light rail trains, increases response time, and improves the quality of traffic safety.

Project Results

- #Improved Traffic Safety** | Reduced train collision accidents through the combination of light rail signal push notification services and the event detection and warning system, which provides information on intersection signals and violations in advance.
- #Drove the Development of the V2X Industry** | The development of event detection technology and its integrated application with the V2X cloud platform increased the added value of V2X, driving the development of hardware and software industries, and creating business opportunities through cooperation with domestic companies.

