RZ Ecosystem Partner Solution
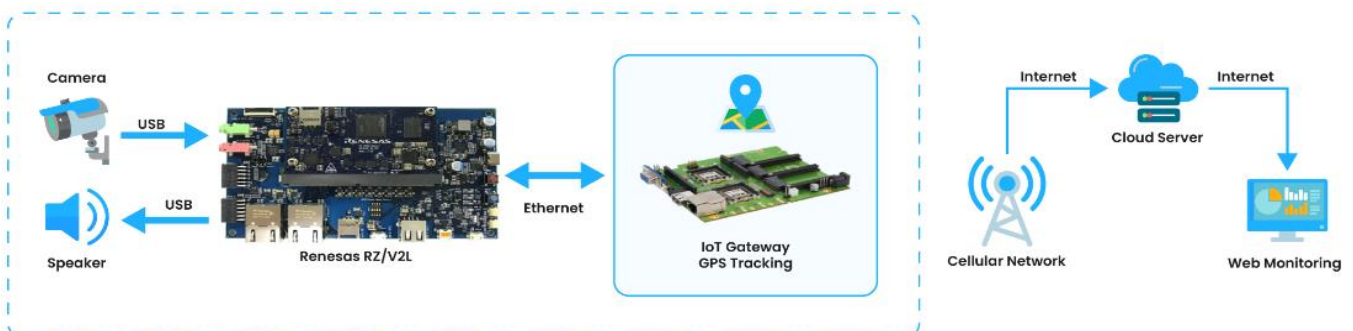# TMA Driver Monitoring System

Solution Summary

TMA's Driver Monitoring System (DMS) enhances transportation safety and supports real-time location monitoring, which helps to detect and track distracted and drowsy drivers. Optimized for embedded processors, this AI solution runs on a Renesas RZ/V2L MPU with inference time as low as 10 milliseconds and an average error as low as 1.5% of face size.

Features/Benefits

- Driver monitoring
  - Driver identification through facial recognition technology
  - AI-powered detection of driver distraction and drowsiness using real-time facial and behavioral analysis
- Vehicle management
  - Real-time GPS tracking for live vehicle location and route
- Dashboard
  - Driver status with captured images
  - Map to display vehicle location

Diagrams/Graphics

Target Markets and Applications

- Logistics and transportation

www.tmainnovation.com/en/solutions/driver-monitoring-system

2024.11

About TMA Innovation

Leveraging the experience from more than 27 years of research, providing thousands of solutions to many international corporations, and the abundant human resources of more than 4,000 engineers of TMA Solutions, TMA Innovation wishes to apply the most advanced technologies to provide innovative, breakthrough solutions for many different fields.

With many years heavily investing in 4.0 technologies, TMA Innovation has been delivering innovative products that apply latest technologies such as Data Science, Artificial Intelligence (AI), Big Data, IoT, Blockchain, to customers in many countries.

Vietnam Smart City Award	Vietnam Smart City Award	Top **10**	Top **10**	Top **10**
Security, safety, emergency, rescue solutions	Smart building/ apartment solutions	Businesses providing 4.0 solutions	AI & IoT enterprises	Fintech enterprises

Contact information

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