RENESAS RZ READY
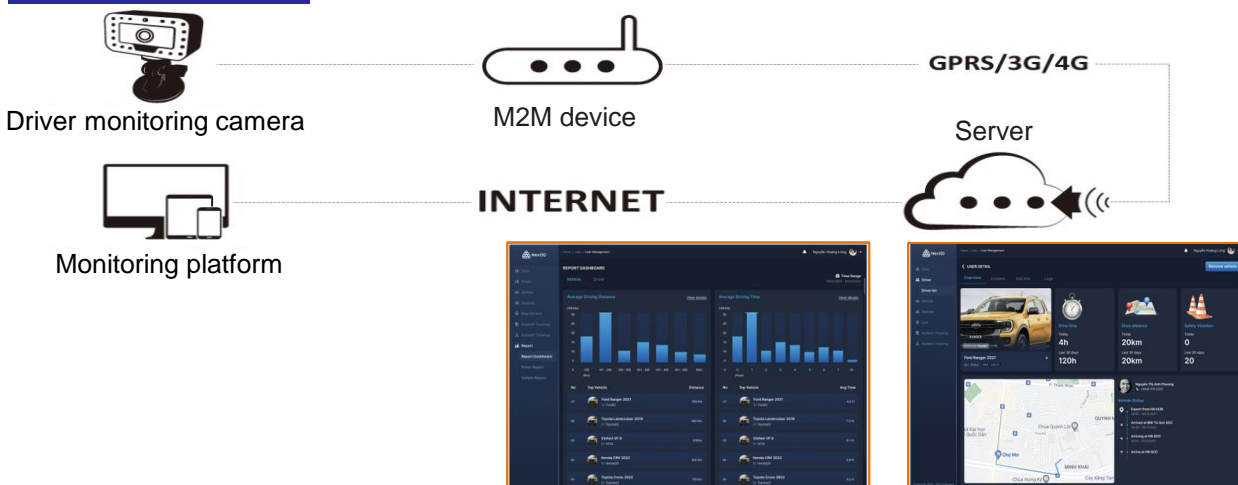
RZ Ecosystem Partner Solution
FPT NextDrive DMS

Solution Summary

NextDrive DMS is a driver monitoring system that utilizes the AI algorithm developed in-house, and the primary functions of NextDrive including identifying driver profile, detecting driver's drowsiness status, dangerous or distracted behaviors, as well as reporting vehicle's route or unusual events real time on cloud. Low power efficiency and real-time processing are made possible by using RZ/V series.

Features/Benefits

- Driver monitoring
  - Driver's profile registration and detection by FaceID.
  - Real time detection and warning of drowsiness, distraction and dangerous behaviors based on the analysis of head pose, face expression, eye state, eye gaze, etc.
  - Integration with alcohol checker, saving the measurement result and evidence images.
- Vehicle management
  - Vehicle list management
  - Real time tracking of location and route
  - Real time sending driver's violations and recording driving manners on cloud.
- Reporting dashboard
  - Visual reports of violations, driving manner, vehicle incidents, etc.

Diagrams/Graphics

Driver monitoring camera

M2M device

GPRS/3G/4G

Server

Monitoring platform

INTERNET

Target Markets and Applications

- Enterprises, especially in logistics and transportation companies, who possess the vehicles and want to ensure their employees' safe driving.
- Insurance companies that provide car insurance with drive recorder.

https://www.fpt-software.jp/product/nextdrive-dms/

2022.08

![FPT Software]

Advantages

High precision face recognition

Provide accurate recognition by infrared camera even when the driver is wearing sunglasses / accessories
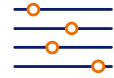
AI detection of dangerous behaviors

Simultaneously monitor, determine and appropriately alert the driver's dangerous behavior and speed

Identification of natural facial expressions

Able to distinguish between the driver's natural appearance, facial expressions, actions and the unappropriated behaviors

Advanced customization

Provide flexible customization such as camera position to meet various needs and the shape of vehicles.

Product specifications

720p wide angle with infrared for improving night vision

Built-in speaker

Hard braking, hardcore braking, sudden acceleration, vibration, tampering, cornering and impacts detection.

WiFi Hotspot, LTE 3G/4G support

Search and replay of on-demand videos available on cloud.

Company information

URL	https://www.fpt-software.jp/
Company name	FPT Software Company Limited (subsidiary of FPT Corporation)
Employee	More than 22,000 people
Headquarters	Hanoi, Vietnam
Location	26 countries and regions
Services	Business application services, DX services, cloud professional services, data analysis, IoT, mobility, embedded systems, CAD / CAE, IC design, BPO, AI solutions

URL	https://www.fpt-software.jp/company-information/fpt-japan/
Company name	FPT Japan Holdings Co., Ltd. (subsidiary of FPT Software)
Employee	More than1,750 people
Headquarters	6F - KDX Hamamatsucho Place, 1-7-6 Shibakoen, Minato-ku, Tokyo 105-0011
Location	8 locations in Japan
Contact	Tel: +81-3-6634-6868 Email: Fjp.contact@fsoft.com.vn