RAPIDISE

QUALITY DELIVERED

Rapidise Profile

RAPIDISE
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We are a **Global Dashcam ODM** delivering cutting-edge solutions, from design to manufacturing, with in-house hardware, software, and AI expertise for faster, smarter products.

Manufacturing & Engineering Team	500+	Full Product Assembly & Testing Lines	20
SMT & PCBA Facilities	18	R&D, Development & Product Testing Centers	3

Our USP

- 1M+ DashCam units Delivered in Market

- Multiple DashCam solutions for Fleet / Consumer / OEMs

- 100% Inhouse Design to Manufacturing Capabilities

RAPIDISE CORE EXPERTISE

Dashcams / Camera Systems

ADAS Camera

Edge AI Box with cameras

OEM Fit DashCam

Fleet/Aftermarket DashCams

Edge AI Deployment
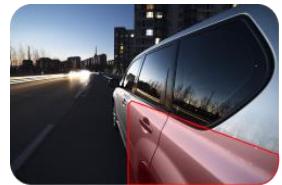
Audible Pedestrian Alert System

Front Collision Alert

Predictive Maintenance

Blind Spot Detection
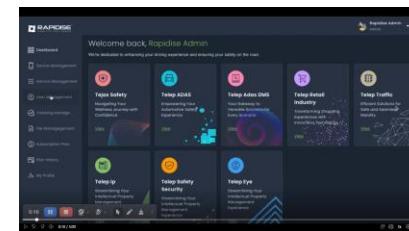
Telematics and Edge AI Box

Edge AI Box

VSaas

ADAS & DMS Analytics

Semiconductor Partners - Dashcam, DMS, ADAS, Surround View

Qualcomm

NXP

ST life.augmented

onsemi

OMNIVISION

RENESAS

SONY

TEXAS INSTRUMENTS

All images shown are for illustrative purposes only. Actual products or results may vary

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DashCamera Solutions

Rapidise works with selected semiconductor partners for development of DashCamera solutions that are proven for Edge AI and Reliability, balancing cost and performance. This also allows us providing solutions from low-end cost efficient solutions to high-end multicamera multi-AI models supported solutions.

- **Qualcomm QCS5430 / 6490** - Higher compute headroom for additional AI and multiple camera channels

- **Qualcomm 6125** Limited Camera Channels, Balanced AI performance

- **Ambarella CV22** Optimized for edge AI computer-vision workloads, Balanced cost and performance

- **TI TMS320** Real-time DSP strength, proven in automotive grade, Cost Efficient

Edge AI Box + Modular Cameras

Rapidise developed modular dashcam and ADAS system featuring Edge AI boxes and adaptable cameras, starting with dual-camera setups that integrate DMS + Front View for enhanced safety. This design enables seamless expansion to include blind spot, body, and rear cameras with same Edge AI Box. Powered by Rapidise own SOM on Qualcomm's pin-replaceable modules, it allows to effortless upgrades from dual 3.5 TOPS to high-end 12 TOPS without requiring any redesign depending on the number of AI models and number of Cameras.

- On-device DMS and AI Processing
- Ethernet and AHD Interface
- CAN Interface
- 6 x 2MP Camera Sensors
- Processor: Qualcomm 5430/6490
  - Rapidise RISE X1/X2/X3/X4
- AI Processing Power: 3.5 TOPS to 12 TOPS
- Market: OEM and Aftermarket, Commerical Vehicles
- Surround View supported

Qualcomm

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Dual Camera Dashcam with LTE

Rapidise is engaged as an ODM to build the Dual Dash Camera product for the Transport Fleets Based on QCS5430 with In-Cabin and Road Facing Camera. This product is designed to support both front-facing and in-cabin cameras. This device will be integrated with a mobile application and cloud servers for data access and management. The dashcam includes advanced algorithms capable of detecting sudden braking and rapid acceleration events. This solution is primarily targeted at transport fleets operating in the North American region.

Tech Specifications:

- Processor: Qualcomm QCS5430 (Compatible with QCS6490)
    - Rapidise RISE X1 Platform
- 4MP Camera For In-Cabin and Road Facing Camera
- CAN Connectivity
- AI Processing Power: 3.5 TOPS
- System Components
    - Wi-Fi and Bluetooth
    - LTE (4G)
    - GPS
- IMU Sensor

The LTE enabled DashCamera with 2 units architecture (Edge AI Box + Camera Unit) aims to enhance vehicle safety in the Japan market by developing an advanced emergency call system. The system is designed to automatically connect to an emergency call-center when a vehicular accident is detected, ensuring immediate support and communication for the occupants with Video Data Transmission and Comprehensive System Integration.

Tech Specifications:

- Processor: Qualcomm SM6125
    - RISE C1 Platform
- 4MP Camera For In-Cabin and Road Facing Camera
- CAN Connectivity, IMU Sensor
- Connectivity: Wi-Fi and Bluetooth, LTE (4G), GPS
- Integrated compact 2-camera unit (front and in-cabin).
- User Interaction
    - Voice Call Functions (Microphone and Speaker)
    - Dedicated SOS Button
- Smartphone Interfacing
- Video Recording Function

Qualcomm

DashCam for OEM Fitment

Rapidise is engaged as an ODM to build the Dual Dash Camera product with three variants - WiFi only, WiFi + LTE, and WiFi + Ethernet.Product will support both front-facing and in-cabin cameras with integration of advanced DMS, ADAS, and IMU-based algorithms todeliver driver monitoring, safety, and multiple operational use cases. This solution is primarily targeted for deployment across MEA, North America, Africa, and Indian regions.

Tech Specifications:
- Processor: Amberella CV22
- 2 Different Variants:
    - Variant A: Only WiFi
    - Variant B: WiFi + LTE + CAN
- Front and In-Cabin Camera View + Two AHD options
- Multiple DMS and ADAS Algorithms Deployed
- IMU Algorithms Deployed for Multiple use cases
- 2MP front and back sensors

Ambarella™

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DMS Dash Camera

Rapidise is engaged as an ODM to build the Dual Dash Camera product with three variants - WiFi only, WiFi + LTE, and WiFi + Ethernet.Product will support both front-facing and in-cabin cameras with integration of advanced DMS, ADAS, and IMU-based algorithms todeliver driver monitoring, safety, and multiple operational use cases. This solution is primarily targeted for deployment across MEA, North America, Africa, and Indian regions.

Tech Specifications:
- Processor: TI 264
- Key Features:
    - On the Edge DMS AI
        - Driver Drowsiness
        - Driver Attention
- Ethernet Interface
- CAN Interface
- 1 MP Camera

TEXAS INSTRUMENTS

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