






Mobile Unit for Sensing Traffic

MUST

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NEXT-GENERATION CONNECTED VEHICLE TECHNOLOGY

Mobile Unit for Sensing Traffic (MUST) is a sensor fusion and edge computing device that can be used for comprehensive traffic sensing, roadway surface conditions monitoring, visibility detection, dangerous events detection & warning, smart parking & curb management, and connected vehicle applications.



MUST utilizes advanced Artificial Intelligence (AI) and edge computing technologies



MUST collects multimodal traffic data (vehicles, pedestrian, bicyclists), road surface conditions (i.e., dry, wet, snow, ice), travel time estimates, etc.



Multiple sensors, i.e., video camera, media access control (MAC) address detectors via Wi-Fi and Bluetooth signals, and temperature & humidity sensors, are integrated in one unit



MUST serves as a communication unit on the infrastructure side for connected vehicles and other smart transportation applications.

GALLERY



ADVANTAGES

- **All-In-One Unit**
 - Multi-sensor integration
 - In-device (edge) data analysis
 - Real-time communication
- **Cost-Effective**
- **Plug-And-Play**
- **Privacy Protection**
- **Easy Installation**
- **Flexibility for Various Applications**



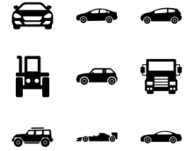
KEY FUNCTIONS



Road-side Device for Connected Vehicle Apps



Travel Time Data Collection



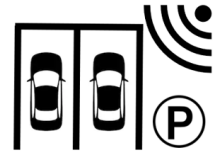
Vehicle Counting & Classification



Roadway Monitoring & Control



Pedestrian Detection & Trajectory



Parking Detection and Security Monitoring

APPLICATION SCENARIOS



SPECIFICATIONS

- **Operation Temperature** -40 °C ~ 70 °C
- **Operation Relative Humidity** 10% ~ 90%
- **Ingress Protection** IP 65
- **Power Supply** 12V(DC)
- **Energy Consumption** < 35Watts
- **CPU** ARM1176JZF-S 700 MHz
- **Communication** 3G/4G/5G, Ethernet
- **Operation System** Linux
- **Local Data Storage** Micro Secure Digital (SD) Card
- **Weight** 10 pounds
- **Dimensions** 170 mm (length), 170 mm (width), 300 mm (height)

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