

# Plug & Play Vehicle Positioning Device



## Challenges

### Capturing, analyzing & monitoring vehicle fleet driving data

Logistics and insurance companies handle large vehicle fleets and need comprehensive, easy-to-integrate aftermarket IoT solutions to digitize their business. Customers want to collect, store, and transmit reliable data from onboard sensor devices with connectivity. Reliability and security are critical. Devices must be protected against misuse. Integration into customer cloud infrastructure must be single-click. All hardware should be included and not be dependent on peripheral GPS trackers or cellular mobile devices. Solutions should lend themselves for provisioning new and additional services, such as trip processing or driver scoring, with scalable infrastructures to ensure a long product life cycle.



## The PI Labs TixS CL Solution

### An off-the-shelf device to connect vehicles to the cloud in seconds

The TixS CL IoT device transmits live sensor data from vehicles and assets to the cloud within seconds. The integrated sensor technology and radio module can be stationed in a vehicle for quick tracking, fleet, and asset management. The LTE Cat-M1 and Narrowband IoT radio module, built in battery pack as well as state-of-the-art data security provide the ability to manage and update the devices completely remote. Customers always have full control and transparency regarding the data.

Along with hardware devices, the TixS CL solution comes with a set of additional services for analysis and monitoring of driving data to scale into existing data infrastructures.

## Benefits

TixS CL: A plug & play vehicle tracking product with all sensors, connectivity and integration features



### Quick setup for full functionality

Everything is pre-configured to connect the device to a vehicle and to your AWS cloud infrastructure. It takes a few steps in minutes.



### Scalable, secure, and reliable

Fully LTE-M-capable, highest safety and security standards through TLS 1.2 and storage of several weeks of data in case of no network connection.



### Comprehensive onboard sensors

High data quality based on precise onboard sensors (accelerometer, gyroscope and GNSS) and AGPS within the device.



### Remote update and configuration

Over-the-air updates and configurations are protected through an onboard recovery image which can easily be applied.

## PI Labs and TixS CL on AWS

The TixS CL IoT client has got everything you need to realize your use case for insurance telematics, fleet and asset management on AWS in just a few steps. If you need some more analytics insights, PI Labs offers valuable services like trip detection or driver scoring based upon the powerful AWS foundation.

As qualified AWS IoT Core device, TixS is fully compatible with AWS services. It is pre-configured for a quick and easy-to-use integration into customer existing AWS infrastructure.

### Features



#### Out-of-the-box system setup and system integration support

TixS as a certified IoT device for AWS is designed to be integrated seamless into your existing AWS infrastructure. Users can start with a preconfigured cloud formation template and with a few tweaks are up and running on AWS infrastructure. If no infrastructure exists so far, the AWS experts at PI Labs are happy to help to perform a system integration to provide a fully functional solution in AWS tailored to user needs.



#### Full transparency over data and maximum security

Positioning data becomes a concern to privacy, but TixS has it covered. Sensitive data and certificates are stored within a crypto module on the device and data transmission is fully encrypted.

### Case Study: Die Schweizerische Mobiliar



#### Establish trustworthy Usage Based Insurance (UBI) product

Die Mobiliar wanted to establish a UBI product without complicated installation requirements for their clients and integrated in the corporate ecosystem with full control over data.



#### Easy-to-use and autonomous IoT client

Pi Labs delivered a ready-to-use IoT solution which was easily installed in the 100s thousands by motor insurance clients without professional support. All gathered data was transmitted securely and autonomously from the device to the customer infrastructure.



#### Successful UBI tariff for Swiss motor insurance market

The customer was able to introduce a usage-based insurance tariff gathered for establishing driver scores in the Swiss market; increasing their market shares and customer bonding through the possibility of individualized tariffs and a user-friendly hardware solution.

### Get started with PI Labs solutions on AWS

Visit the [AWS Partner Device Catalog](#) to purchase today.