HOW THE IOT ENABLES MOBILE ASSET TRACKING



TRACKING ASSETS AS THEY MOVE THROUGH THE SUPPLY CHAIN IS A HUGE ADVANTAGE FOR BUSINESSES

But generating real-time data on mobile assets is hard, due to:



Limited cellular connectivity in remote areas



Assets located indoors where connectivity is spotty



High bandwidth consumption of data-heavy applications



Limited battery life of remote devices in the field



Advances in IoT and sensor technology have resulted in a new generation of asset tracking solutions, capable of not just remotely tracking an asset, but also sensing the environment that it is in.



These technological advances mean that companies can now track the location and condition of IoT-enabled assets wherever they are in the supply chain



Benefits of tracking assets



ASSET TRACKING – BUILD VS BUY

Companies can build their own asset tracking solution with embedded connectivity or buy a pre-packaged, market-ready solution. Answering these questions can help define which solution is right for you.

- How quickly do you need to deploy the solution?
- What type of geographic coverage do you need?
- Do you have the in-house resources to build you own solution?
- Does your solution need to be customised or have additional sensors?
 - Will you need to track in remote or low-coverage areas?



Pre-packaged Solution:

- Wired, OBD or battery-powered devices
- Network connectivity
- **Cloud-based** application
 - Satellite solution if cellular not available
 - AirVantage[®] IoT platform

Semtech offers the following stand-alone components and services:



Ready-to-Connect solution

IoT Modules and Gateways

AirVantage® IoT platform 🧹

START WITH SEMTECH

The new generation of asset tracking solutions present major business opportunities. By partnering with Semtech, companies can benefit from the competitive advantages offered by these cutting-edge technologies

Resilient Global Connectivity with Smart Connectivity



- Designed for IoT devices
- Offers global connectivity across multiple networks
- Simplifies cross-regional network support
- eSIM allows customers to change connectivity provider at any time

Simplify IoT with READY-TO-CONNECT





- Industrial grade GNSS positioning modules with pre-integrated Smart SIMs
- Simpler development with SIMs pre-connected with carriers around the globe



Reduce time-to-revenue



Streamlined operations dealing with one supplier



Enhance end-to-end security

Deploy Quickly, Efficiently and with Low Up-Front Capital Costs with a MANAGED SERVICE



- OBD 'in cab' solutions for car fleets and trucks to monitor driver behavior
- Wired solutions for tractor-trailers or trucking applications

Wireless, battery-powered devices for cargo and shipping

Satellite solutions for remote tracking where cellular is not available like disaster relief or transmodal shipping

Manage Your Asset Tracking Deployment Through a Single Point of Management





Monitor and control devices across entire global IoT network with single interface

- Tracks device health and performance from a central dashboard and can remotely upgrade device firmware
- Track operational behavior in the field and upgrade the device
- - Manage your whole suite of SIMs, whether that is a Semtech SIM or a SIM from a third-party MNO



For more information on Semtech connectivity solutions visit: www.sierrawireless.com/iot-services

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