

# Qualcomm® QTS112 Thin Tracker

**A credit card-size, reusable thin tracker that provides the shipping industry with location visibility for tracking in outdoor and indoor environments.**

Most large companies have little to no visibility of the actual whereabouts of their shipments. The Qualcomm® QTS112 Thin Tracker is purpose-built specifically for the shipping industry to offer an extremely compact and cloud-monitored tracking solution for real-time visibility of any shipment of goods in a multimodal land, sea, and air transportation environment.

The QTS112 Thin Tracker is an intelligently connected, out-of-the-box ready tracking solution with a low cost of ownership, providing an invaluable tool for businesses that ship goods.



## Highlights

### Thin tracker for the supply chain

- Built using the proven Qualcomm® 216 Modem
- Integrated, secure SIM allowing connectivity over LTE Cat. 1bis module optimized for IoT applications
- Designed for poor-RF coverage environments



### Pre-integrated with Qualcomm Aware

- Pre-integrated with the Qualcomm Aware™ Platform
- Qualcomm Aware service APIs for enterprise integration, location, and service management
- Intuitive web application for managing device and sensor configuration and firmware updates



### Ultra-low power operation

- Highly optimized, extremely low-power operation for positioning and cellular communication
- Support for up to 500 periodic updates on a single charge



### State-of-the-art positioning support

- Global location using Wi-Fi and cellular signals powered by Qualcomm Aware™ Positioning Services
- Periodic location reporting and geofence alerts configurable through Qualcomm Aware cloud services
- Cloud-driven configurable hierarchy of location technologies for the best location at low power
- Optional, automated cloud-led deployment of location profiles based on journey requirements



### Benefits of tracking shipments

- Monitor all shipments and communicate order status to customers at any point in time.
- Provide estimated delivery dates and frequent updates on an order status. Inform customers well in advance if their order is going to be delayed.
- Inform customers if an item from their shipment is going to be delivered separately and how that will impact delivery estimates.
- Reduce the number of customer complaints.



# QTS112 Applications

- Package Tracking
- Logistics
- Container Shipment Tracking
- In-Transit Theft Detection Geofencing
- Supply Chains

## Features

- Turnkey connectivity via eSIM supporting multi-country roaming
- Positioning via cellular scan relies on serving, neighbor cells measurements
- Uses Qualcomm Aware Positioning Services with a database of 100+ million cells and 9+ billion Wi-Fi APs that provide accurate and precise location
- Integrated Wi-Fi 2.4 GHz for Wi-Fi measurements enhances location accuracy by referencing a database of billions of geolocated beacons
- Suitable for indoors, urban canyons, and open sky
- Cellular scan-based accuracy: a few 100 meters\*, Wi-Fi scan-based accuracy: a few 10s of meters\*
- Low-power sensor processing
- Configurable days of use based on configurable collection and reporting interval
- LED to indicate charging and device status
- Multitude of power optimizations such as support for 3GPP PSM feature and optimized cellular and Wi-Fi scanning
- Cloud-configurable location and sensor parameters that offer a trade-off between performance and power

\* Specified location accuracies are observed under specific set of conditions (e.g., dense urban for Wi-Fi positioning)

## Related Products

This product was built using the [Qualcomm® 216 LTE IoT Modem](#), a low power IoT-optimized LTE modem featuring integrated terrestrial positioning support.

## Cloud Integration

- A Qualcomm Aware agent on device allows the device to be commissioned for customer shipment journey via the cloud.
- The cloud can control power, connectivity, and device management policies through the cloud agent or dashboard.
- Location, device health data, diagnostic data, and alerts sent from device to cloud are encrypted and can be unencrypted by the cloud.
- Software can be updated remotely to add new features to the device by means of a FOTA package push from the cloud.

## Specifications

Dimensions	EU model: 86 mm x 56 mm x 3.5 mm GL model: 88 mm x 56 mm x 3.5 mm
Weight	EU model: 23 g GL model: 27 g
Cellular Technology	LTE Technology: Rel14 LTE Cat. 1bis
Modem	Qualcomm® 216 LTE IoT modem
Connectivity	Pre-provisioned for out-of-box connectivity
RF Bands - LTE FDD	EU model: 1/3/5/7/8/20/28 GL model: 1/2/3/4/5/7/8/12/13/20/28
Location	Qualcomm Aware Positioning Services using cellular and Wi-Fi-based scans
Supported Sensing Algorithms	Flight mode detection, motion detection, and motion state change to support ultra-low power consumption and sleep state. Ambient Light Sensor (0-66 K Lux) in GL model only
Tracking Platform	Location, alerts, notifications, geofencing
Battery	200 mAh lithium-ion polymer rechargeable battery
Charging	Charging cradle. 0 to 100% in 2.5 hours
Operating Conditions	Temperature: -20 °C to 60 °C Humidity: 85% RH (no condensation)
LED	LED indicating device status
Certification	EU model: CE/TELEC/Korea/RoHs/WEEE/Reach GL model: FCC/ISED/CE/TELEC/RoHs/WEEE/Reach
IP Rating	IP65

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