



## The New **FlashLink**. BLE Mobile Gateway Route Delivery Solution for Your Perishable Shipments

The FlashLink BLE Route Delivery solution was specifically designed to address the unique challenges faced during route delivery of perishable products. These challenges include issues with cargo loading, frequent door openings for unloading, and variations in ambient truck temperature - all of which have the potential to reduce product shelf-life. Additionally, many route delivery vehicles are not equipped with Transportation Management Systems (TMS), which combined with shelf-life reductions, can significantly impact profitability.

To tackle these route delivery problems, the solution employs assisted GPS positioning technology for real-time tracking of the vehicle's location, while also monitoring the environmental conditions inside the refrigerated compartment, throughout the delivery route. By creating geo fences at every delivery location, the system can notify stakeholders of vehicle arrivals, and monitor the duration of door openings during loading and unloading of perishable goods. The Route Delivery solution also tracks the time a vehicle spends stopped at each delivery location and, for security purposes, detects any unscheduled deviations in the route.

An important benefit of the solution is that it addresses temperature fluctuations that can occur during product loading and unloading. Typically, temperature monitoring is only initiated once all cargo has been loaded. However, a significant amount of time could elapse between the time the first and last pallets are delivered to the final destinations, creating disparities in the quality of each pallet. Likewise, delivery routes involve multiple stops, with each door opening potentially causing temperature changes in the vehicle, and affecting the quality of all remaining cargo. The BLE Route Delivery solution enables accurate evaluation of product quality on individual pallets, by implementing precise, pallet-level monitoring from the time a truck is loaded until it reaches each delivery point.

Another key advantage of the FlashLink BLE Route Delivery solution is its cost-effectiveness, compared to traditional transportation management systems for local real-time cold chain monitoring. The solution is easily installed in any vehicle by connecting the Mobile BLE Gateway to a battery source and placing the BLE Temperature and Humidity Beacons inside the refrigerated storage compartment.

Continuous monitoring throughout the delivery process ensures that all temperature deviation events are captured,

providing valuable data for making important decisions regarding a shipment's disposition. FlashLink BLE Beacons use Bluetooth technology to wirelessly transmit temperature and humidity data to a BLE Mobile Gateway. The gateway utilizes cellular and GPS technology to monitor in-transit temperature and location, and offers position accuracy within 2 meters. All data is automatically transferred to FlashTrak Cloud Services for easy access and analysis.

The BLE Temperature and Humidity Beacon and Mobile Gateway provide a flexible monitoring solution. Devices can be positioned to track individual pallets or monitor the different temperature-controlled zones within a trailer.

Overall, the FlashLink BLE Route Delivery solution provides an efficient and reliable way to ensure proper temperature and humidity levels are maintained for all perishable products throughout the entire delivery process, enhancing the quality and safety of transported goods.