TGI CONNECT
INTELLIGENT TRAILER TRACKING

Tanker Tracking

The Tanker Tracking Challenge

Tanker fleets face a tougher tracking problem than most. Trailers sit for days in remote terminals and customer yards, routes run through rural stretches with patchy coverage, and the cargo itself might be flammable or require strict temperature control to stay hot enough to flow. Standard cellular trackers struggle to handle these demanding conditions effectively.

Satellite Changes the Picture

- No dead zones: Remote routes, rural yards, and border crossings stay visible without depending on a nearby tower.
- Reliable data on idle trailers: Stationary trailers continue reporting uninterrupted, avoiding the gaps typical of movement-dependent systems.
- Geofences & Landmarks: Build custom geofences to drive alerts and reports on yard movements, arrivals, departures, dwell times, and utilization rules.

What Operations Teams Actually Get

- Faster Location: Drivers use "Find My Trailer" to skip yard searches and cut missed pickups.
- Higher Utilization: Dwell and movement reports expose idle trailers to reduce rentals.
- Fewer Disputes: Timestamped data backs up arrival, loading, and release times.
- Smarter Maintenance: Mileage and runtime reports cut unnecessary preventative maintenance.

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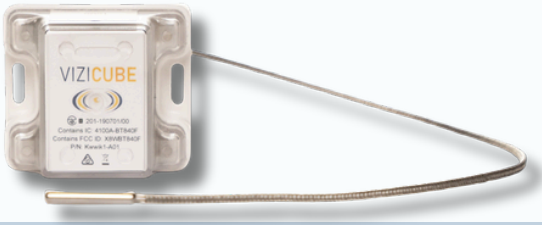
Intrinsically Safe Hardware: Built for Hazardous Cargo

Powered by the SmartOne Solar unit over LEO satellite:

- Certified Hazardous Safety: ETL (Class I, Div 1 / Zone 0) and ATEX/IECEx certified to prevent ignition around volatile fuels, chemicals, and hot asphalt across a -40°C to +65°C range.
- Completely Wireless: Solar-powered with rechargeable batteries for fast, spark-free installation.
- Built to Last: IP68/69K and MIL-STD-810G rated to handle harsh washdowns, extreme weather, and heavy vibrations.
- Reliable & Secure: Backed by a 5-year warranty, with instant location alerts, lockdown hours, and optional tamper switches to prevent theft.

Vizicube Smart Sensor with Probe: Captures Cargo Temperature



Adds direct cargo-condition monitoring by measuring internal/external temperatures and connecting via Bluetooth to the SmartOne Solar for hourly satellite relays:

- Prevent solidification: Alerts when temperature leaves a configured range before products (asphalt, emulsions, hot oils, food-grade syrups) cool past the point of no return.
- Avoid rejections & disputes: Timestamped temperature records prove compliance at delivery.
- Plan loads better: Compare internal and external readings to estimate heat loss and set the right departure temperature.
- Reduce manual checks: Digital readings mean fewer drivers climbing onto a tanker to read analog gauges.