

# ENABLING VAST WIRELESS CONNECTIVITY TO UNLEASH YOUR IOT POTENTIAL IN SMART TRACKING

Every second, another

## 127

devices are connected to the internet

The Global Commercial Telematics Market may grow by

## \$ 23.15 Billion

between 2020-2024

There may be  
**41 Billion**

IoT devices by 2027

**DID YOU KNOW?**

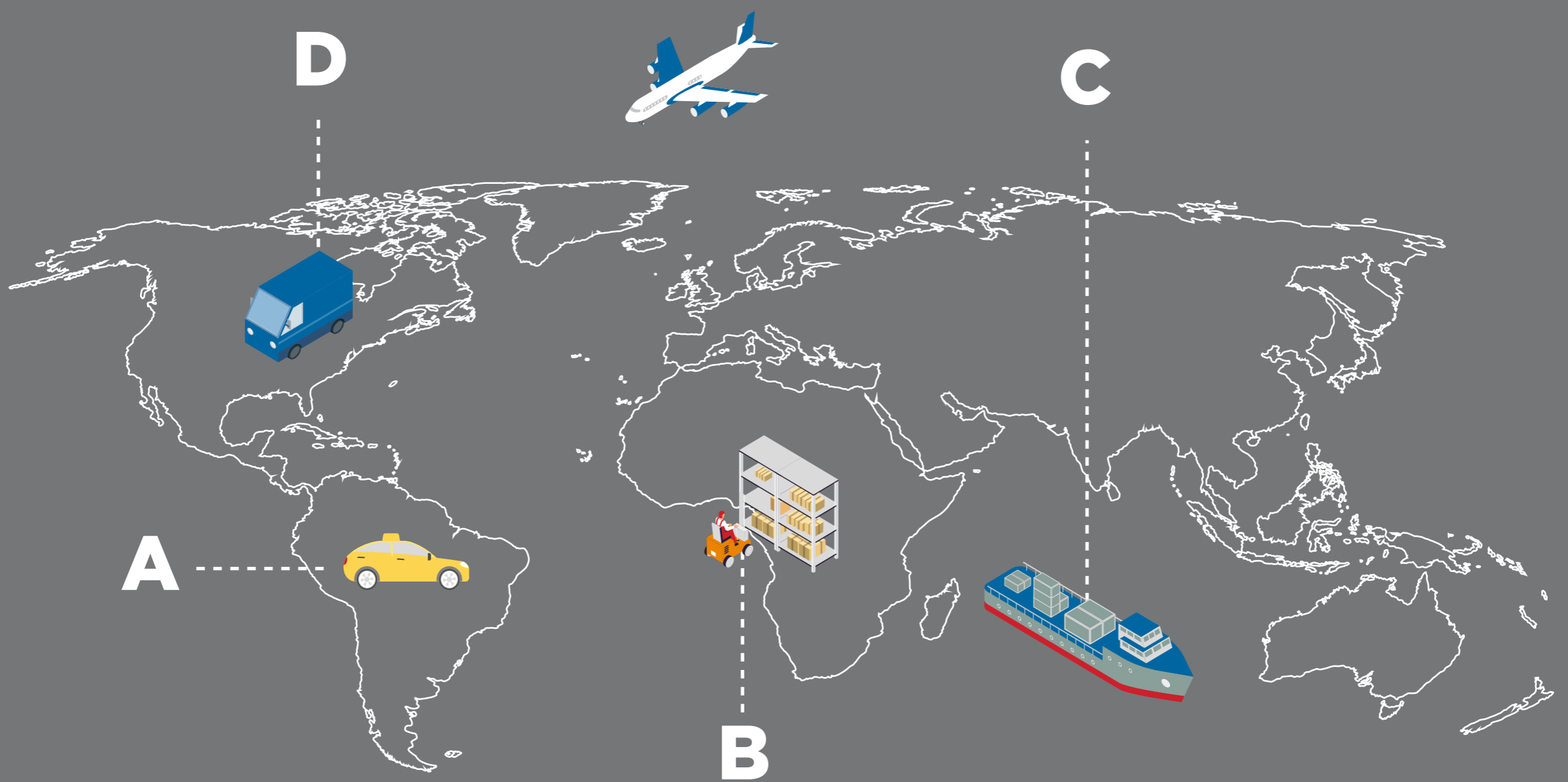
Global Asset Tracking Market may reach

## \$32.0 Billion

by 2024, growing at

## 14.9% CAGR

TE Connectivity (TE) is a leading provider of standard embedded and external antenna solutions that can enable reliable wireless and vast connectivity.



## APPLICATIONS

**A**



**Telematics & OBD**  
(on-board Diagnostics)

By combining a GPS system with on-board diagnostics it's possible to record – and map – exactly where a car is and how fast it's traveling, and cross reference that with how a car is behaving internally.

**B**



**Smart Assets**

Digitally enabled monitoring of processes, operations and assets into an integrated system delivering improved efficiency of your business

**C**



**Smart Logistics / Freight**

Platooning trucks carry freight efficiently from the port to their destination. Smart inventory systems inform operators about when freight is moved between different locations

**D**



**Vehicle Fleet Communication**

Public transit and city fleet vehicles communicate with their home agency when it is time for maintenance or replacement

## Benefits



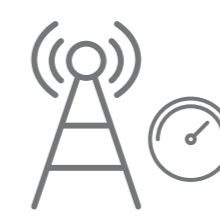
Omni directional performance



High efficiency antenna which help battery power saving



Ability to operate multiple frequencies for global tracking

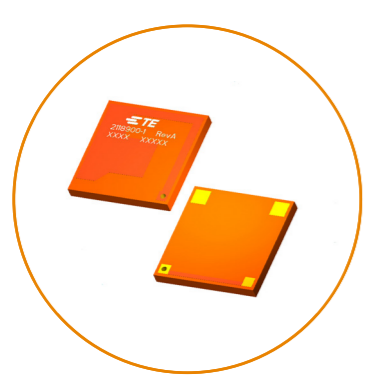


High performance antenna to avoid cellular signal interruption



Harsh environment durability

## Antenna Solutions



**GNSS**  
product #2118900-1

- Small and light weight
- Available in tape and reel packaging for automatic mounting
- Enhance efficiency and bandwidth
- Minimum matching circuits required



**4G Cellular / Non-cellular / LPWAN Embedded Antenna**  
product #2367286-1, #2108994-1

- Battery efficiency
- Omni directional coverage
- Can be combined with other services (multi-functional antennas) e.g. WLAN and Lora



**4G, 5G Cellular Antenna**  
product #2195729-2

- Omnidirectional coverage
- 90 degree hinge type SMA connector terminal mount antenna
- Wide Band coverage for 5G, 4G, 3G, 2G, NB-IoT, Cat-M, GNSS
- No matching components required
- Bandwidth and performance are not dependent on ground plane size



**NB-IoT / CAT-M Antenna**  
product #2108784-1

- Omnidirectional coverage
- On board SMD PCB antenna
- Wide band coverage for 5G, 4G, 3G, NB-IoT and CAT-M with GNSS
- Bandwidth and performance dependent on ground plane size/ design suggested minimum ground plane length from antenna feed is 120mm
- Available in Tape & Reel packaging for automatic mounting

## Why partner with TE Connectivity?



**TE Connectivity portfolio benefits**

## 20+

Years of Know How

We can address your expectations and help unleash your IoT potential by offering many wireless possibilities.

- High reliability: high performance and isolation
- High efficiency: optimized throughput, minimal losses
- State of the art antenna laboratories and in-house testing
- Easy implementation reducing total cost of ownership
- Improved sensitivity delivering excellent coverage
- Mating RF components available for greater flexibility