TrackPoint Mobile

Nexcomm System's TrackPoint Mobile is a small, cellular gateway designed for outdoor tracking and sensing applications. It uses an integrated GNSS receiver and reports its location through a CAT-M1 cellular modem. Dallas 1-Wire and one input give it the ability to connect to sensors for real-time monitoring of equipment.

A primary battery operates the TrackPoint Mobile for as much as three years or more, depending on the report rate and number of GPS locks. Alternatively, a solar recharged battery enables much more frequent reporting and GPS locks without needing to replace batteries or service the units. This eliminates the need for local power at the installation site, making installation and moving the device to different equipment easy.
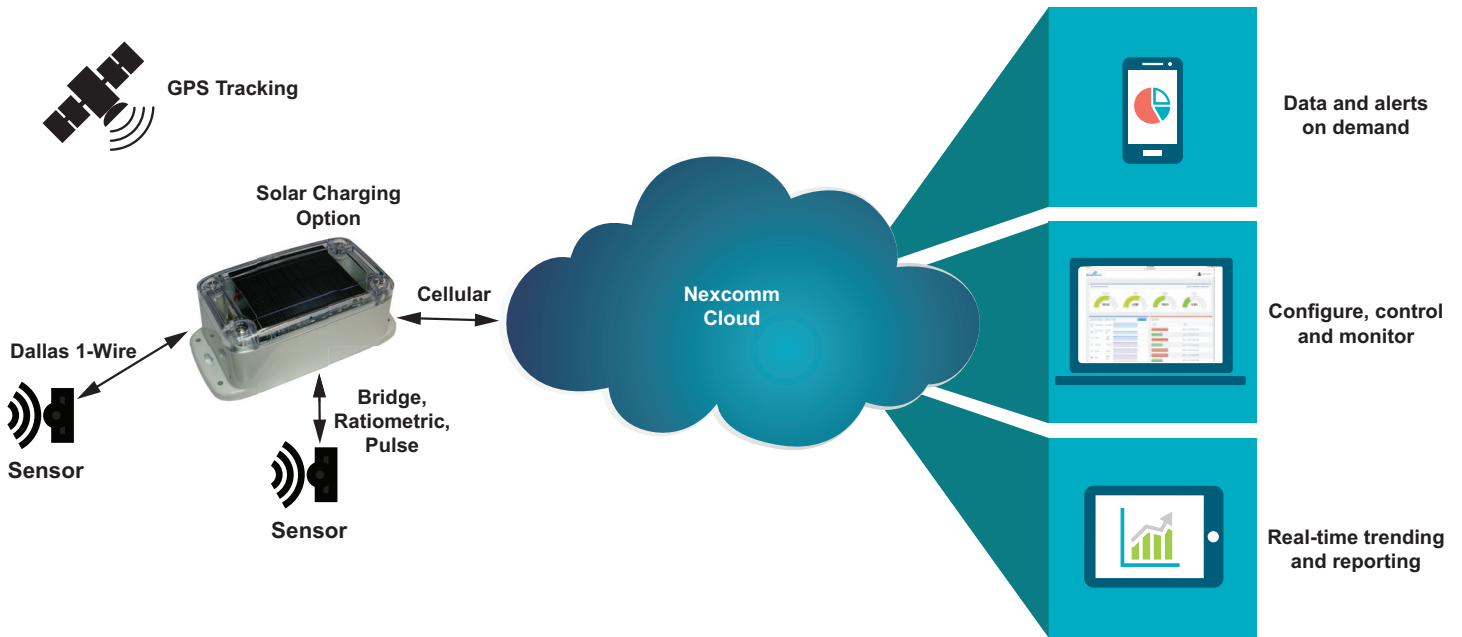
The TrackPoint Mobile is housed in a rugged outdoor rated enclosure and can easily be white labeled. It can report to Nexcomm servers or to a customer's existing cloud services. This generic approach to connectivity makes the TrackPoint Mobile ideal for integrating into new and existing systems.

Benefits

- One input accepts ratiometric signals from bridge output sensors, pulse inputs or resistive inputs.

- Dallas 1-Wire port for digital sensors.

- Motion detection to initiate tracking only when the device is moving.

- CAT-M1 LTE cellular connection offers better range and power management than traditional CAT-1 or CAT-4 links.

- Primary battery or battery with solar charger options.

- Small package with flanges for easy mounting.

- Nexcomm Cloud services are available, or the system can forward data to a customer's existing cloud services.

- Custom labeling and packaging are available.

GPS Tracking

Solar Charging
Option

Cellular

Nexcomm
Cloud

Dallas 1-Wire

Sensor

Bridge,
Ratiometric,
Pulse

Sensor

Data and alerts
on demand

Configure, control
and monitor

Real-time trending
and reporting

TrackPoint Mobile Specifications

Electrical

Primary D-cell LiSOCl2 battery or rechargeable 18650 cell battery with solar charger

Communications:

One Dallas 1-Wire Channel
Cellular: LTE, CAT-M1
GNSS location services

Inputs:

One for sensors with ratiometric mV/V bridge outputs, pulse outputs, or resistive outputs; software selectable from the cloud

Environmental:

Operating temperature: -40˚C to +85˚C (-40˚F to +185˚F)
IP68

CPU

Atmel ATSAMC21G18A Chipset (ARM Cortex-M0+ architecture) at up to 48MHz (8MHz typ)
256kB flash (total), 32kB RAM