

BlipTrack Traffic Sensor

WiFi/BLE/Bluetooth travel time, queue, occupancy and origin/destination measurement.



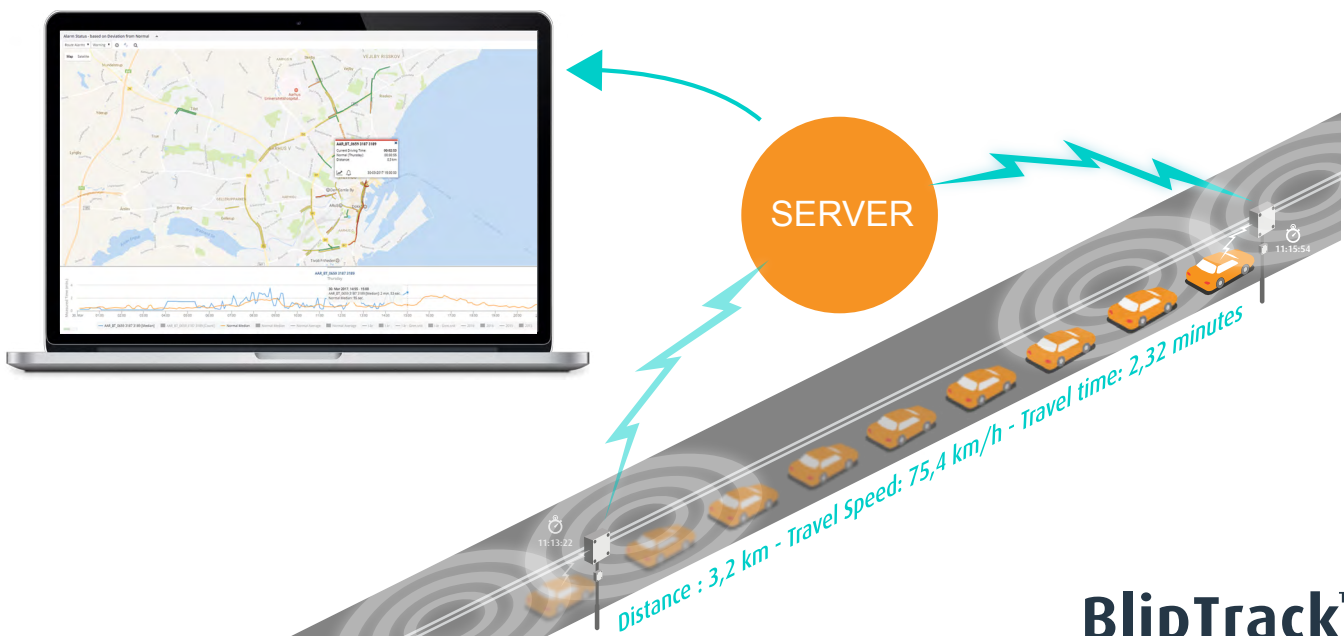
Scalable travel time, queue, occupancy and flow measurement all in one solution. Indispensable for monitoring, managing and improving the road network in real time.

Sensors detect WiFi/BLE/Bluetooth-enabled devices, like phones and onboard Bluetooth systems in cars. As the device passes a sensor, the unique device ID is time-stamped and encrypted.

Through re-identification, as the device passes multiple sensors, the system measures travel times and movement patterns. Advanced deep learning algorithms make both real-time and historical queue times, occupancy numbers and flow pattern insights available.

- + The tamperproof and weather-resistant sensors are easily mounted on existing road structures and poles without disrupting traffic.

- + Sensors are either connected to a local permanent or intermittent power supply, such as street lighting or solar power, or an independent power source.
- + Live sensor monitoring allows for issues to be handled before they become problems, while a loss of network connection automatically enables data caching.
- + BlipTrack handles calibration and setup, and maintenance is subsequently not required.
- + Sensors work 24/7, in all weather conditions, such as snow, heavy rain and fog, in all traffic conditions, such as slow moving traffic, and multiple directions and lanes simultaneously.
- + Sensors can measure segments with multiple flows, such as parallel train tracks, bus lanes, bike lanes and more.



BlipTrack™

Outdoor Traffic Sensor

Specifications



Sensor Specifications

Item number:

BTTS-12V
BTTS-230V
BTTS-230V-BAT
BTTS-230V-RADAR

Exterior Description

- Size: 278 x 278 x 130 mm (10.94 x 10.94 x 5.11 in)
- Weight: 3000g (6.61 Lbs) - With battery 7600g (16.75 Lbs)
- Color: Light gray polycarbonate
- Temperature range of material: -40°C (-40°F) - +80°C (176°F)

Ambient Temperatures

- Max: +50°C (122°F) / Min: -10°C (14°F)

Power (model BTTS-12V)

- Supply: 11,5 - 16,0 VDC, max 1A
- Consumption: Average < 4,0W (w/ Wi-Fi: < 6W)
- External battery low cut-off voltage: 10,3 - 10,7 VDC

Power (model BTTS-230V-BAT)

- Supply: 100 - 240 VAC, 50 - 60Hz, max 1.2A
- Power consumption: Max 75W when charging
- Consumption: Average < 9W (w/ Wi-Fi: < 11W)
- Battery Type: 12V/12ah LiFePO4 with an expected lifetime of 5-7 years. Operating time on fully charged battery: Up to 1,5 days.

Power (model BTTS-230V)

- Supply: 100 - 240 VAC, 50 - 60Hz, max 0.31A (BTTS-230V)
- Consumption: Average < 4W (w/ Wi-Fi: < 6W)

Radio Characteristics

- Bluetooth 2.1 + EDR (Class 1)
- Bluetooth BLE radio class 2 (Bluetooth 4.0)
- Frequency band: 2.402 - 2.480 GHz

Connectivity

- Mobile broadband or Power over Ethernet (PoE 802.3af 48V)

GPS Receiver

- High sensitive SiRF Star 4 GPS

Radio Interface

- 2 x class 1 radio (directional antennas)
- 1 x class 2 radio (omni directional antenna)
- Placement: Opposite 180°
- Beam width: 70°/70°
- Front/back ratio: 23dB

WiFi Sensor (BTTS-WF)

Exterior Description

- Size: 85 x 82 x 60 mm (3.34 x 3.22 x 2.36 in)
- Weight: 360 g (0,79 Lbs)
- Color: Light gray polycarbonate
- Temperature range of material: -40°C (-40°F) - +80°C(176°F)

Ambient Temperatures

- Max: +50°C (122°F) / Min: -10°C (14°F)

Power

- Supplied from USB connection

Antenna Details

- 2 x 5 dBi Directional RHCP antennas

Wi-Fi Technical Data

- 2 x Wi-Fi receiving radios

Interface for Bluetooth sensor

- Water resistant USB connection (IP68)

Coverage Area

- Placement: Opposite 180°
- Beam width: 70°/70°
- Front/Back ratio: 10dB

Frequency Band

- 2.4 GHz

