

# TheSmartTorch™ Data Sheet

**TheSmartTorch™ is a highly visible intelligent beacon, that when placed in high risk areas, can draw attention to create situational awareness.**

The SmartCone LED Torch provides a great way to notify and warn people about events such as bicyclist on the bike lane, pedestrian on the side walk, construction zone or any event happening in the surrounding area. The SmartTorch™ uses the Radio Frequency communication (RF Communication) to communicate with TheSmartCone™ at a frequency of (915.0MHz).

Visual amber lights flash based on the parameters set. The ability to add audible alerts helps to increase the communication reach to visually impaired and/or distracted pedestrians.

TheSmartCone™ paired with TheSmartTorch™ is a next-generation IoT solution, utilizing technology to make it safer surroundings for everyone.



# Next-generation IoT technology

Adding TheSmartTorch™ as an early detection/warning system is shown to increase situational awareness to those present in the area. This increased awareness allows for:

- 1) More time to react to the current surroundings
- 2) Greater understanding of the movements of cyclists, pedestrians and motorists.

The audio module allows for pedestrians to be alerted in high traffic areas of approaching assets like cyclists, motorists, autonomous vehicles, etc depending on the desired solution. Additionally this aids in increasing mobility for those who are visually impaired and rely on audio messages to better navigate in multiple environments.

In security settings it alerts unwanted intruders they have entered a restricted area and to turn back.

With work-zone safety applications it can alert as stated above and/or add important awareness for go/no-go zones.

## Specifications

### Physical

<b>Height:</b>	8.75" (22.22cm)
<b>Width:</b>	4" (10.16cm)
<b>Weight:</b>	2lbs.
<b>Weight (Audio):</b>	1lbs.

### Power/electrical

<b>Input voltage:</b>	7-20 VDC
<b>Current draw:</b>	800 mA (on) 40 mA (idle)
<b>Power connection options:</b>	Lockable barrel
<b>Power options:</b>	12V DC Adapter

### Environment

<b>Operating temperature range:</b>	-40°C ~ + 55°C
<b>Weather Rating:</b>	IP65

### Network

<b>Microprocessor:</b>	MEGA32U4 Microprocessor unit
<b>Radio:</b>	RFM69HCW (915MHz)
<b>USB Cable:</b>	USB 2 for programming. Only for Engineering Services

### Visual/Audio

<b>Visual Display:</b>	Amber casing
<b>Current draw audio:</b>	1600 mA (on) 80 mA (idle)
<b>Messages:</b>	Stored
<b>Volume:</b>	30 Watts

### Bollards

55" White certified impact resistant bollards  
Additional options available