

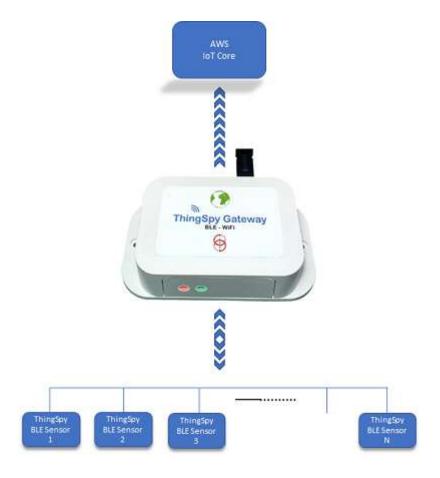


Thingspy Gateway is an IoT gateway device which uses various wireless protocol to monitor and track the assets in real-time. Thingspy gateway integrates a Bluetooth LE, Wi-Fi and an optional GNSS module which is ideally suited for different range of IoT applications. Another variant with LTE cellular

capable of NB-IoT interface is available which perfectly fits outdoor monitoring and tracking applications like fleet management and asset tracking.

Thingspy gateway support AWS IoT core integration which handles data retention and ML functionality designed by Senstornet. With multi-serial interface bus and analogue input channels, a variety of external sensors or co-processor communication can be implemented. When Thingspy gateway combined with Thingspy BLE sensors, monitoring of pressure, humidity, temperature, proximity, 3-axis acceleration of remote sensors is an absolute breeze.

## **Use Case Example**

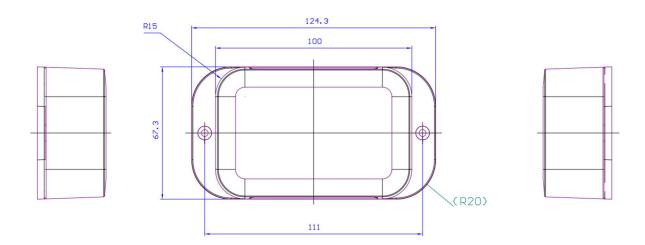


### **Features**

- Arm® Cortex®-M4 32-bit core with 120 MHz max operating frequency.
- Ultra-low power consumption.
- I2C, USART, CAN, SPI and analog input channels to connect with external sensors.
- PF Plastic enclosure casing made of flame-resistant ABS UL94V-0.
- Wall mounting flange bottom design.
- Neodymium magnet mounting (optional).

- AWS IoT core integration for remoter monitoring dashboard application.
- GNSS module with integrated patch antenna.
- Multi-GNSS engine for GPS, GLONASS, Galileo and QZSS.
- Powerful Bluetooth LE and Wi-Fi MCU modules with external antenna.

# Dimensions(mm)



# **Specifications**

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Hardware System	
СРИ	ARM Cortex-M4
Storage	4GB Micro SD card. Note1
File System	FAT32
External Interface	
Port	1 × I2C or 1x USART, 1x SPI, 1x CAN, 2x Analogue input, 2x Digital IO
Wi-Fi Interface	
Antenna	External antenna
Standards	IEEE 802.11 b/g/n, 2.4 GHz
Mode	Station mode
Bit rate	802.11n up to 150 Mbps
Bluetooth LE Interfa	ace
Role	Client

Scan Type Device name, MAC address  GNSS interface (optional)  Antenna Integrated patch antenna  Velocity Accuracy < 0.1m/s @Room temperatu	
Antenna Integrated patch antenna	
Velocity Accuracy < 0.1m/s @Room temperatu	
	re, all satellites at -130 dBm.
TTFF Cold Start: < 15 s Warm Start: < 5 s Hot Start: < 2 s	
Sensitivity Acquisition: -148 dBm, Track	ing: -166 dBm, Reacquisition: -161 dBm
Others	
LED Indicators 1 × GNSS/Wi-Fi, 1x System	
Power Supply	
Power Input External DC 5V 1A	
DC Power Jack 5.5 mm	
Physical Characteristics	
Casing PF Plastic made of flame-res	istant ABS UL94V-0. Note2
Dimensions 124.3 x 67.3 x 35 mm (L x D	x H)
Installation Screw or Magnet type	
Control/Monitoring Application	
Desktop Environment Web Application	
Desktop Environment Web Application  Smart Phone Android and iOS app Environment	
Smart Phone Android and iOS app	
Smart Phone Android and iOS app Environment	
Smart Phone Android and iOS app Environmental  Environmental	
Smart Phone Environment  Environmental  Storage Temperature -40°C to 85°C	
Smart Phone Environment  Environmental  Storage Temperature -40°C to 85°C  Operating Temperature -40°C to 85°C	
Smart Phone Environment  Environmental  Storage Temperature -40°C to 85°C  Operating Temperature -40°C to 85°C  Applications	
Smart Phone Environment  Environmental  Storage Temperature -40°C to 85°C  Operating Temperature -40°C to 85°C  Applications  BLE to MQTT Gateway	

Smart Building	
Smart Agriculture	
Home Automation	
Energy Management	

#### Note(s)

- 1) Micro SD card size can be extended up to 16GB or 32GB. (Needs validation)
- 2) Casing material and IP can be upgraded based on business volume.