

# Specification Sheet

## TagHub™

TagBox  
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Revision 1.6

## 1. Overview



TagHub is a battery powered Bluetooth Low Energy to GSM/WCDMA/LTE/Wi-Fi gateway bridge device which actively monitors sensitive asset parameters from nearby Tag360 sensors and reports it to BoxLens monitoring dashboard. Apart from the real-time and historic telemetry data of Tag360 sensors in vicinity the device attaches timestamp and geo-location information to each message.

The device can be configured to switch between *GO* and *FX* modes depending on the availability of power source. In *FX* configuration, the device is always active and relays the IoT data to servers with minimum latency. The *GO* mode conserves its energy and ensures single charge battery life of 6 weeks on its Li-Ion 10,400 mAh battery.

With dedicated 8Gb storage space for telemetry data TagHub gateway can log and store previous 6 months information of ~100 Tag360 sensors. This feature allows the gateway to log data even under network outage scenarios, and synchronize the historical data once it latches on to a cellular or Wi-Fi network.

An optional OLED display on the device shows its current battery capacity charging status and network connectivity. It also displays the Shipment ID, Container ID and Tag360 sensors

associated with it along with the Box/CrateID assigned to each of the sensors. Note that the sections in this document pertaining to OLED Display are applicable only for variants with display.

As an independent temperature sensing unit, Taghub is optionally available with a temperature, pressure and shock sensors. Temperature probe range is from -40 °C to 110 °C.

## 2. Technical Specifications

Parameter	Taghub		
<b>Electrical</b>			
Wireless Connectivity	Integrated X5 LTE Global Mode modem, WCDMA/HSPA+/EDGE, quad band GSM		
WiFi	802.11n		
BLE Radio	Bluetooth 5.0		
Positioning	GPS/GLONASS, supports A-GPS		
Charging Power Supply	5V 2A (micro USB)		
Battery	GO: 10,400 mAh Li-ion FX: 5,200 mAh Li-ion		
Operating Conditions	Operation	-20 °C to +65 °C	
	Charging	0 °C to +50 °C	
Data Upload frequency programmability	GO: 1 hour to 24 hours		
	FX: 5 minutes to 24 hours		
Battery Life (Taghub-GO)	Upload every hour	4 days	
	Upload every 24 hours	90 days	
<b>Mechanical</b>			
Weight	400 grams		
Packaging	IP64 (for Gland Option)		
Mounting	2 screw-hole mount, 3M		
Size	130*90*40 mm		
Housing	Weather resistant ASA (UL94HB)		
<b>Sensor Specifications</b>			
Sensor	Range	Accuracy	Type
Probe Temperature	-40 °C to +110 °C	±0.5 °C	Ds18b20 probe
3-Axis Accelerometer	±16g	0.032g	Lis3DH
Barometric Pressure	300 to 1100 hPa	±1 hPa	BMP280