Mobilogix

LTE Asset Tracker

Carton Contents

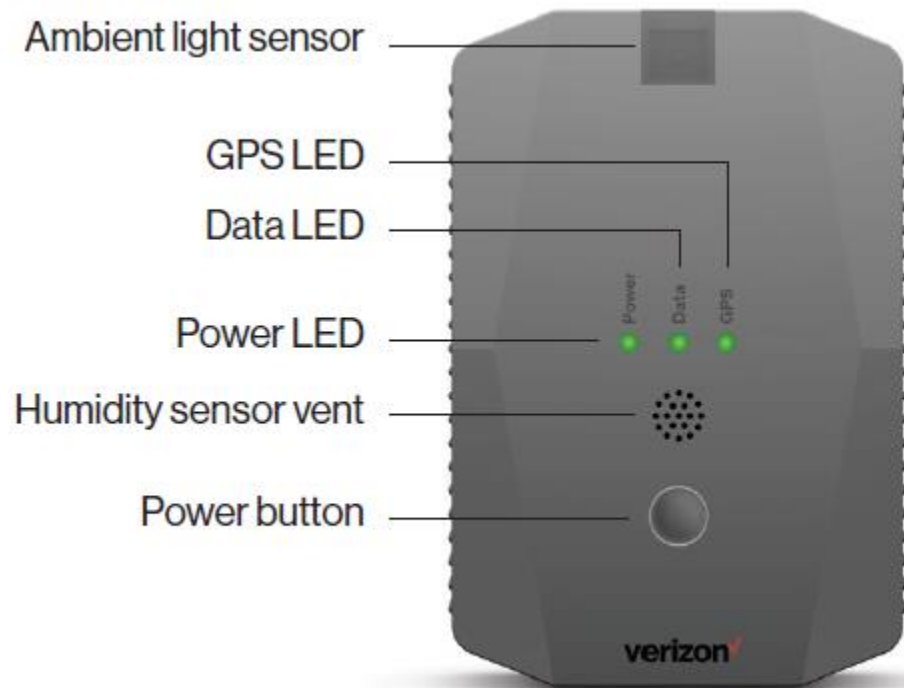LTE Asset Tracker   Micro USB Charger   Quick Start Guide

Module Interface

Ambient light sensor

GPS LED

Data LED

Power LED

Humidity sensor vent

Power button

FCC Interference Statement (Part 15.105 (b))

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC Part 15 Clause 15.21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Part 15.19(a) [interference compliance statement], unless the following statement is already provided on the device label

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ISED RSS-Gen Notice

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1) l'appareil ne doit pas produire de brouillage;

2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC RF Exposure Guidance Statement

In order to comply with FCC/ISED RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.

ISED RF Exposure Guidance Statement

In order to comply with FCC/ISED RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.

Afin de se conformer aux exigences d'exposition RF FCC / ISED, cet appareil doit être installé pour fournir au moins 20 cm de séparation du corps humain en tout temps.

Powering ON and OFF

Press the Power
Button for
3 seconds

Power ON

- Press the power button for 2 seconds
- LED power up sequence:
  - o Power:
    - ▪ Cycle through all colors (red, yellow, green) for 3 seconds.
    - ▪ ON: device is powered up and displays the battery level color indicator.
  - o Data:
    - ▪ Slow blinking (200ms ON, 1800ms OFF): searching for network
    - ▪ Fast blinking (125ms ON, 125ms OFF): data transfer
    - ▪ Slow blinking (1800ms ON, 200ms OFF): registered on network
  - o GPS:
    - ▪ Slow blinking (1 second ON, 1 second OFF): acquiring a GPS location.
    - ▪ Solid: acquired a GPS location

Power OFF

- Press the power button for 5 seconds
- Power LED will cycle through all colors for 3 seconds

Note:

To conserve battery life, the LED's will turn off after 1 minute. To view the LED status, press the power button for 2 seconds. The LED's will remain ON for 90 seconds.

Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities.

Always use a power supply supplied by or specified by Mobilogix. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the end product.

LED Systems Function

LED Systems Description		
Power LED		
State	LED Color	LED Description

Power ON	🔴🟡🟢	1. Cycles through all colors for 3 seconds.
		2. Device power up: LED ON, color indicates battery level.
		3. Battery level indicator:
		   • Red ON: below 20% charge
		   • Yellow ON: 20 to 40% charge
		   • Green ON: 40 to 100% charge

Power OFF	🔴🟡🟢	1. Flash/Cycle all colors for 3 seconds 2. Device will power OFF

Charging	🔴🟡🟢	1. Blink rate: 1 second ON/1 second OFF
		   a. Red: below 20% charge level
		   b. Yellow: 20 to 40% charge level
		   c. Green: 40 to 99% charge level
		2. Green ON: 100% fully charged

Data LED		
State	LED Color	LED Description
Network Search	🟢	Blink rate: 200ms ON/1800ms OFF
Register/Idle	🟢	Blink rate: 1800ms ON/200ms OFF
Data transfer	🟢	Blink rate: 125ms ON/125ms OFF
GPS LED		
State	LED Color	LED Description
Acquiring GPS location	🟢	Blink rate: 1 second ON/1 second OFF
GPS location acquired	🟢	ON: GPS location has been acquired
FOTA LED Sequence		
State	LED Color	LED Description
FOTA Update	🟢	1. FOTA in progress: Power and GPS LED's rapid blink (0.5 seconds ON/0.5 seconds OFF). 2. Once the firmware update is complete, the device will perform power-on-reset (power OFF and back ON).

Key Hardware Components and Specifications

Hardware Components and Specifications	
Component/Spec	**Description**
Quectel BG96-NA modem	• Qualcomm MDM 9206 chipset • LTE CAT-M1 • 3GPP Rel. 12 Power Saving Mode (PSM) • OMA Lightweight M2M (LWM2M) • FOTA • Embedded GPS/GNSS
Antennas	Embedded Cellular/GNSS/Wi-Fi
SIM card slot	3FF Verizon SIM
Power ON/OFF	Capacitive touch
Sensor 1	3-axis accelerometer and 3-axis gyroscope
Sensor 2	Digital humidity, pressure and temperature
Sensor 3	Digital ambient light
LED indicators	1. Power/Battery 2. Data 3. GPS
Battery	Rechargeable Lithium Polymer • 3.7V • 2000mAh x 2
Charging	Micro USB port; micro-USB charger, 3 ft. cable (included)
Operating temperature	-20°C to +85°C
Environmental rating	IP67
Dimensions	115mm (L) x 77.5mm (H) x 23.5mm (W)
Certifications	FCC/Verizon