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Mobilogix MT4201 Powered Tracker Instruction Manual

February 2, 2022

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MOBILOGIX LOGO

Mobilogix MT4201 Powered Tracker

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Theory of operation:

This is an asset tracker equipped with LTE CAT-M1/NB2, GNSS, Accelerometer, and

BLE capabilities.

The device will remain in a sleep mode while in a stationary position. The device can wake up from either of the following scenarios.

In scenario 1, the device will wake up and go into a "Stolen Mode", meaning the device has been moved without authorized consent from the home server. In this mode the tracker will begin broadcasting location and sensor information to home server, so the correct actions can be taken to retrieve the stolen device.

In scenario 2, the device obtains authorized consent to be moved and goes into a "Trip" mode. In this mode the device logs and broadcasts sensor and location information so the users trip can later be analyzed. After the user has deactivated the tracker Via the LTE CAT-M1/NB2 network or BLE, the device will go back into a sleep mode to conserve power.

The device will draw, majority of its power from the trackers host asset, this is a much larger supply. However, there will be a smaller onboard Li-Po battery attached to the tracker, just in case the host's supply runs out. There is no physical on/off switch on this device. Once it is connected to a supply it will begin to run, unless, a BLE or cellular command gives the tracker a shutdown command.

Accessory

There is the component list:

1. MT4201
2. harness + extension cable
3. screw, 4 or 5 pcs
4. SIM card (may have

MT4201E

MT4201C

Installation

Before installation

Please open encloser

Mobilogix MT4201 Powered Tracker FIG 3

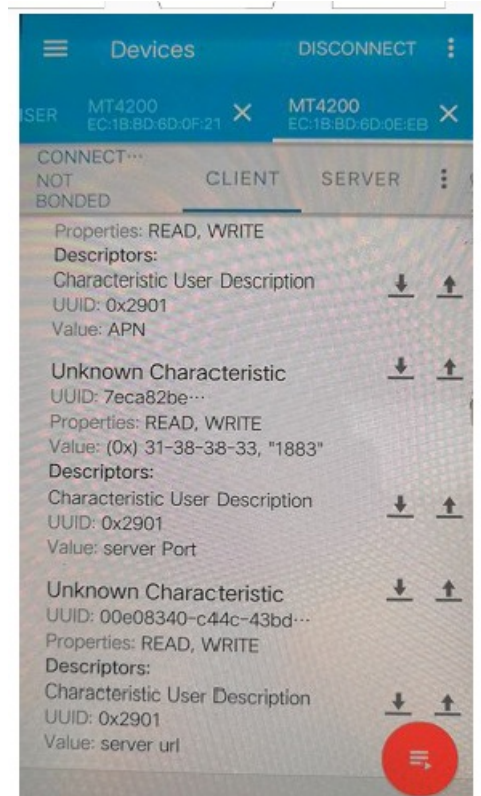**Insert SIM card**

Mobilogix MT4201 Powered Tracker FIG 4

Config device

There are 3 ways to config the device, such as SMS, APP, and over backend, at here,

show you how to use APP to config the device.

Notice: Due to MBX APP not available, so, we use third party APP

- Open your BLE APP and scan device
- Find the right device by MAC address
- connect with the device
- APP will enumerate all the character, here is an example

Key items

The APN (username, password), server URL (and Port) we need config at first, otherwise, device can not make connection established.
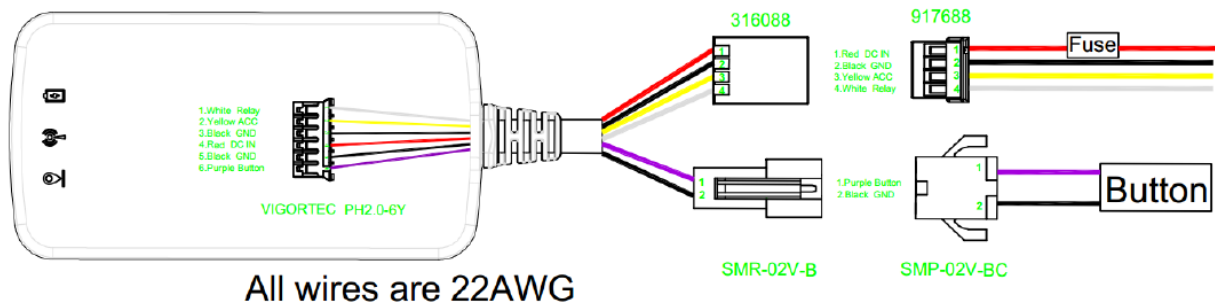
Notice:

1. in the DVT sample, default APN is: mobilogix1.telefonica.co
2. in the DVT sample, default URL is: mbxiotfusion.mobilogix.com:1883 (DEV server)
3. for demo purpose, the URL should point to staging server, for mass production, the URL should point to production server, please talk with cloud team to check the server is ready or not when you do a demo
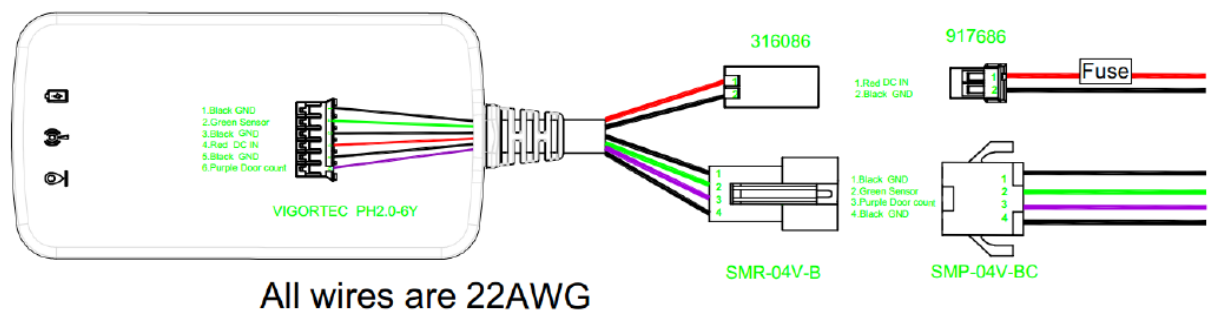
Installation of MT4201E and MT4201C

Interface definition

MT4201E

316088 917688

Fuse

1.White Relay
2.Yellow ACC
3.Black GND
4.Rad DC IN
5.Black GND
6.Purple Button

1.Red DC IN
2.Black GND
3.Yellow ACC
4.White Relay

VIGORTEC PH2.0-6Y

Button

1.Purple Button
2.Black GND

All wires are 22AWG

SMR-02V-B SMP-02V-BC

MT4201C

316086 917686

Fuse

1.Black GND
2.Green Sensor
3.Black GND
4.Red DC IN
5.Black GND
6.Purple Door count

1.Red DC IN
2.Black GND

VIGORTEC PH2.0-6Y

1.Black GND
2.Green Sensor
3.Purple Door count
4.Black GND

All wires are 22AWG

SMR-04V-B SMP-04V-BC

Power ON

- When battery is connected, the device automatically powers The device does not have a button or power switch. The MT4201E&MT4201C Asset Tracking Device will be mounted on top of a host device, which will supply power to charge the internal battery.

Power OFF

- When the MT4201E&MT4201C Asset Tracking Device is in an idle state, it enters into its lowest power consumption state, or low power

Hardware Components and Specifications

Item	Description	Comment
	LTE-FDD:	

Cat-M1/NB2	B1/B2/B3/B4/B5/B8/B12/ B13/B18/ B19/B20	BG95
	B25/B26*/B27/B28/B66/B71/B85	
	LTE-TDD:	
	B1/B2/B3/B4/B5/B8/B12/ B13/B18/ B19/B20 B25/B26*/B28/B66/B71/B85	
	EGPRS:	BG95
	850/900/1800/1900MHz	
GNSS	GPS/GLONASS/BeiDou/Galileo/QZSS	BG95
BLE	Bluetooth5.0	EFR32BG13
SIM Card	Nano SIM Card	
Acceleration Sensor	Triaxial, low-g acceleration sensor	BMI160
OneWire Communication	To external sensor, such as DS18B20	Only MT4201C
	and ID tag	
Ignition Input	This signal can be as high as battery level	
Relay Driver	driving relay recommended.	Only MT4201E
LEDs	Charging Indicator(Red): charging status.	
	LTE indicator(Green): registration status.	

	GNSS indicator(Blue): position capturing	
Battery	1000mAh	
Charging Current	400mA	
Optional External Device	Bluetooth Sensor: BTM250	Beacon/Temperature/
		Environmental Sensor
Upgrade	FOTA	
Operating Temperature	0°C to 45°C(charging battery) -20°C to 60° C(discharging battery)	

FCC Statement

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 or more 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 Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired

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

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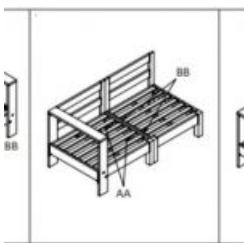
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