



# IoTLink Shadow

## Wireless Multi-Functional IoT Tracker/Transmitter

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**IoTLink Shadow** is a compact, battery powered, tracker and cellular gateway for IoT Monitoring and Asset Tracking applications.

**IoTLink Shadow** offers immediate and wireless implementation in any of the applications without the need for wiring or external power source of any kind.

**IoTLink Shadow**, has a very low power consumption and a special power management technology which makes it a great solution for visible or concealed tracking, monitoring and as an IoT gateway to various sensors.

**IoTLink Shadow** comes with many unique features supporting various IoT, UBI, SVR and Tracking applications



\* **IoTLink Shadow** can come in a regular or  variant which will include external power connector.

## FEATURES

- 1 No installation required
- 2 Standard Short-Range communication for sensors and mobile devices
- 3 Accident detection
- 4 Parking Habits monitoring
- 5 Trips count - Trip Start / End
- 6 Manual Tracking mode
- 7 Remote configuration and management (FOTA)
- 8 Command controlled transmission profiling for power endurance
- 9 Dedicated Messages Server for delayed commands
- 10 Replaceable / Rechargeable battery (optional)
- 11 Smart Input for Gas Leveling system (optional)
- 12 Multiple transmission modes - Asset / Tracking / Idle (optional - variant inc. external power) / Auto Tracking / Manual / Moving - Stop

## Modes

Tracking	<p><b>Purpose:</b> Regular tracking</p> <p><b>Explanation:</b> The device will be used as a tracker, continuously transmit its location and other parameters in pre-defined time intervals.</p>
Idle	<p><b>Purpose:</b> Power conservation is important, and the system only wants to know that the device is alive</p> <p><b>Explanation:</b> The device transmits its location in pre-defined time intervals. A set of conditions can be configured to automatically change mode to Tracking or Manually by a command sent from the server.</p>
Asset	<p><b>Purpose:</b> When the device is used for Asset Tracking.</p> <p><b>Explanation:</b> Using external power source, the device will continuously transmit its location in pre-defined time intervals. Once External Power is lost or disconnected, the device will switch to Idle mode</p> <p>* AS variant only</p>
Auto Tracking	<p><b>Explanation:</b> The device will automatically switch modes between Idle to Tracking based on pre-defined conditions.</p>
Manual	<p><b>Purpose:</b> When power conservation is critical.</p> <p><b>Explanation:</b> The device will transmit location and pre-defined parameters for a pre-defined period of time and time intervals</p>
Moving / Stop	<p><b>Explanation:</b> The device will transmit its location and configured parameters every time it starts to move and when it stopped moving.</p>

## TECHNICAL SPECIFICATIONS

Cellular	4G LTE CATm-1 / NB-IoT with optimized embedded antenna.
Location	GPS/GLONASS/GALILEO , Active antenna, Sensitivity -165 dB, NMEA, Acquisition (normal): cold <34s, warm <30s, hot <1s, accuracy: 2.5m CEP Embedded optimized antenna
Communication	Text messages, TCP/IP over GPRS/UMTS/EDGE/HSPA, Standard short range communication module v4.0, 2.4Ghz (in iRF Variant)
Power Supply	Internal replaceable battery 3.6VDC, 4,400mA
Configuration / Firmware Update	OTA, parameters setup, software programming
Data Logger	Up to 1,000 messages

## ENVIRONMENT

Operating Temperature	-20 to 70° C
Storage Temperature	-40 to 85° C
Dimensions	9.39cm x 4.5cm x 2.74cm
Weight (NET)	100gr
Max. Relative Humidity	90(±5)%

## **FCC warning statements:**

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.

**Caution:** Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

The device has been evaluated to meet general RF exposure requirement. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.