

User Manual

Asset Tracker

Ultra Pulse 1

CHEP

2901 Tasman Drive Suite 101 Santa Clara, CA 95054

CHEP Asset Tracker User Guide



CHEP Asset Tracker

Global location tracking device with the longest battery life

Key benefits

Helps track the pallets and goods loaded on Asset by providing real time location and environment sensing data.

Customer can use the data generated to get more insight into their supply chain flow and take actions to improve the efficiency of operation.

Device can be controlled and configured using BRIX platform and APIs provided. Customer need to get license to BRIX platform to access data from the devices.

Customer can visualize the device and hence Asset of their asset on BXB Enterprise application call BRIX.

Customizable User Interface and interface data visualization tool on BRIX can be used by customer to generate information as relevant to their specific use case.

Each Ultra device fitted with replaceable battery and last for >5yrs.

How is it used



**Use CHEP Asset Tracker location tracking
Platform and API to Track your valuable assets
Track your shipments**

How it works

Device ID	Device Name	Device Type	Device Status	Device Location	Device Battery	Device Temperature	Device Motion	Device Magnetometer
1	Device 1	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
2	Device 2	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
3	Device 3	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
4	Device 4	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
5	Device 5	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
6	Device 6	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
7	Device 7	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
8	Device 8	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
9	Device 9	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00
10	Device 10	Asset Tracker	Online	12.3456	95%	25.0°C	0.00	0.00

CHEP Pallet Tracker is intended for enterprise customers wanting to track their assets. Customers with BRIX enterprise license will get access to **Device management** applications to configure the device operation rules like logging frequency, ping transmit frequency and can choose the sensor to use like temperature, motion and magneto meter etc. Device can report sensor data every 5min. to once in 3day. More reports per day – shorter the battery life.

CHEP Asset tracker reports its current location on the scheduled interval along with sensor data. Each communication report from tracker to BRIX is called “Ping” and BRIX uses these “Ping” to create the journey using it preoperatory Asset journey algorithm. Customer can login on to **Asset tracking application** module in the BRIX and visualize the complete journey on the map. Please in-between each “Ping” CHEP Asset Tracker is in the sleep State, preserving the battery.



Customer can monitor 1000s of devices in a comprehensive view on BRIX dashboard and can take corrective actions. CHEP Asset tracker uses BLE to determine its location and accuracy of location goes from coarse to accurate in the order. Customer can monitor the # of times each tracker has used BLE. Customer can see the data for only the devices allocated to its own account only but once the customer cancels it's account, tracker data will no longer be visible even though device will continue to work & report data.



Danger: Never insert batteries on wrong polarity

Always insert recommended batteries with correct polarity in the Ultra devices. Wrong polarity can lead to device heating up and potentially damaging the pallet and goods on it.



Danger: Don't put devices in Microwave

Devices should never be put in microwave, it will damage the device permanently and can lead to a fire or explosion.



Warning: Always put devices in dormant mode for Air shipment

Federal Aviation laws require all cellular devices must turn off cellular function for the entire flight duration. To comply, we must put devices in Dormant mode before shipment by air.



Warning: Never throw devices in the fire

Under any scenario, do not throw devices in fire. Devices are not designed to withstand excessive heat and if thrown into fire, may explode.



Caution: Always use specified torque to mount the device

Device is designed to withstand a specified mounting torque without cracking. Never apply more than the specified torque to mount/unmount devices and always use specific screw for fastening.



Caution: Always attach the devices flushed to pallet edge

Device must be mounted from the front and right at the edge (flushed) of the pallet. This allows the internal antenna to get maximum cellular signal for better communication.

Hereby, CHEP declares that the radio equipment type Asset Tracker is in compliance with Directive 2014/53/EU and UK Radio Equipment Regulation 2017(RER 2017(SI 2017/1206)).
The full text of the EU and UK declaration of conformity is available at the following internet address:
CHEP.COM

Importer:

CHEP Germany

Address: Am Winkelgraben 13, D-Germany Biebesheim, Germany 645548

CHEP UK Ltd

Address: Village Wy, Trafford Park, The Village Manchester, GB M17 1HR

The product supplied by CR2477 Lithium batteries

For this device, it should keep at least 20cm separation distance and the prohibition of operating to a person.

Caution:

For Battery: Risk of explosion battery is replaced by an incorrect type, dispose of used batteries according to the instructions.

Operating Frequency Range	The maximum RF Output Power
Bluetooth LE 2402 - 2480 MHz	4.5 dBm EIRP

FCC Caution.

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.

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

Note: 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.

RF warning for Mobile device:

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.

ISED Notice

This device complies with innovation, Science and Economic Development Canada license-exempt RSS standard(s). 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 Innovation, Sciences et Développement économique 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, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en

ISED RF Exposure Statement

This device complies with ISED RSS-102 RF exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the IC RSS-102 RF exposure limits, human proximity to the antenna shall not be less than 20 cm during normal operation.

Cet appareil est conforme aux limites d'exposition aux rayonnements de la CNR-102 définies pour un environnement non contrôlé. Afin d'éviter la possibilité de dépasser les limites d'exposition aux fréquences radio de la CNR-102, la proximité humaine à l'antenne ne doit pas être inférieure à 20 cm pendant le fonctionnement normal.