

Sense Asset+

Highly ruggedized, industrial IOT asset tracking device offers effortless indoor and outdoor tracking of assets.



The HID IoT active tag Sense Asset+ includes LoRaWAN connectivity protocol as well as Bluetooth® Low Energy and GPS capability. The device is a highly efficient battery-powered IOT tracker. With the aid of the onboard accelerometer, the device is able to detect when it starts to move and will transmit a LoRa message to the backend to indicate that it is no longer in its original position. Once the device comes to rest it will initiate the configurable positioning engine which can activate Bluetooth® Low Energy based positioning when indoors, or activate its GNSS receiver when outdoors to acquire the new position of the device and will transmit this to the backend over LoRaWAN. The device also has a configurable heartbeat LoRa payload which can be sent periodically to inform end users of the battery life and state of the device.

To aid with locating a specific asset within a rack or storage location, the device's bright LED and buzzer can be activated either via Bluetooth® Low Energy or via a LoRa downlink command to activate the alert service.

The device uses NFC enabling configurable parameters to be encoded into the device. NFC configurable settings include GNSS and accelerometer thresholds, Bluetooth® Low Energy power, Alert (LED and buzzer) duration and setting, besides LoRa network and regional parameters.

Alternatively, the device can also be configured via LoRa downlink commands.

HID Sense Asset+ Industrial is ideal for applications requiring medium to long-range tracking such as mining, laydown yard management or asset management, and can be used for tracking of industrial assets such as construction equipment, pipes, cable spools and ground support equipment.

Sense Asset+ Hanger is designed to be used by the automotive industry to identify and locate semi-finished vehicles on large factory parking lots. The flexible carbine lock allows easy fixation and removal on the car's rear-view mirror.

Alternatively to this Sense Asset+ LoRa device, HID offers the **Sense Ultra** — a device sharing the same rugged housing and long battery life, that is Bluetooth® LE and Quuppa compatible to act as a highly accurate location anchor e.g. in underground mines.



KEY BENEFITS:

- **Industrial rugged version** to use in laydown yard or outdoor logistics
- **Hanger version** specifically designed for automotive industry work-in progress tracking
- **Multiple fixation options** via cable ties, rivets or snap-on hanger
- **Bright LED & Buzzer** help quickly identify individual assets

TECHNOLOGY HIGHLIGHTS:

- Multi-constellation GNSS for outdoor positioning
- Power-efficient LoRaWAN providing long-range connectivity for wide area coverage
- Onboard Bluetooth® Low Energy for indoor positioning via several different techniques, including sBeacon integration to HID Bluzone™



Sense Asset+ Industrial



APPLICATION AREAS:

- Yard management
- Manufacturing facilities
- Warehouse management
- Container management
- Facilities management
- Ports construction and mining
- Asset management
- Field operation
- Fleet monitoring

*These devices contain lithium thionyl chloride (Li-SOCl₂) cylindrical battery (bobbin cell.) Please observe the safety measures to protect your warranty and ensure safe operation.

For more information, contact iotsales@hidglobal.com



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800
Europe, Middle East, Africa: +353 91 506 900
Asia Pacific: +852 3160 9800 | Latin America: +5
For more global phone numbers click here

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Part of ASSA ABLOY

	Sense Asset+	Asset+ Hanger
		
Part Number	CP18934 Sense Asset+ - US - Grey - Rivet/ Cable Tie - Battery CP18938 Sense Asset+ - EU - Grey - Rivet/ Cable Tie - Battery	CP19860 Sense Asset+ - LoRa - US - Orange - Hanger - PRD-B - Battery CP19861 Sense Asset+ - LoRa - EU - Orange - Hanger - PRD-B - Battery
	RF SPECIFICATIONS	
Radio Protocol	LoRaWAN 1.0.4, Regional Parameters RP2-1.0.3, Support LoRaWAN CSMA, Bluetooth, NFC, and GNSS	
LoRa Frequency Range	866-868 MHz (EU) 902-928 MHz (US)	
BLE Tx Power Range	+4dBm to -40dBm	
LoRa Class Supported	Class A operation (default) Class B can be used for Low latency activation of alerts over LoRa and position update request Class C can be used for FUOTA at US band (tested with Senet LNS)	
Beacon rate	Configurable LoRa Heartbeat (1-255hrs) Movement start LoRa Beacon uplink (Based on accelerometer activity) New position LoRa uplink (based on accelerometer activity) 2.5/ 5/ 10 sec (Bluetooth LE, sBeacon)	
Indicators	Bright Green LED Buzzer (Volume: 70dBa)	Bright Green LED and Buzzer (Volume: 85dBa)
UHF Passive RFID	Custom Passive RFID label design providing up to 10m read range with Impinj R700 reader, (environment dependent). Using Impinj M730 IC	
	FEATURES	
Sensors	Accelerometer, GNSS (GPS, GLONASS and BeiDou)	
	PHYSICAL	
Length x Width	Sense Asset+ Cable Tie: 5.33 in x 2.72 x 1.25 in (135.5 x 69.2 x 32 mm) Sense Asset+ Rivet including cable tie slot: 6.30 x 2.72 x 1.25 in (160.1 x 69.2 x 32 mm)	9.12 in x 2.55 x 1.19 in (231.7 x 64.9 x 30.4 mm)
Mounting Method	Rivet Attachment, Mechanical (std)	Hang from rear view mirror using karabiner attachment
Housing Material	Overmoulded shock resistant TPE	Polycarbonate
Color	Grey	Orange (PMS 151C - Slight variation in shade from batch to batch may occur)
Weight	7.8 oz (222 g) (without Rivet & Cable Tie)	6.99 oz (198.39 g)
	BATTERY	
Type	2x Ultralife ER14505-H 3.6v 2,400mAH (total capacity 4,800mAH)	
Lifetime (depending on utilization)	Up to 3 years (Note battery life is dependent on use case and configuration of device)	
	CHEMICAL AND MECHANICAL RESISTANCE	
Water	IP68	IP54
Withstands Exposure to	Salt Mist	N/A
Impact Resistant	4kg drop from 1m - IK09	1.2m on to concrete, drop hook up - IK08
Compression Top down	>2000kg	N/A
Vibration & Shock	MIL-STD 810H	N/A
	THERMAL	
Storage	-4° to +140° F (-20° to +60° C)	
Operating Temperature	-4° to +140° F (-20° to +60° C)	
	OTHER	
Standards	Regional Radio Certifications: United States (FCC), European Union (CE) / IEC 62368-1 / EMC / SAR	
Options	Customization of label and configuration available upon request.	
Box Size	5 pcs.	
Warranty	1 year	

An externally powered version is available for the UK market, with availability in other countries upon request.

