
GEO TAG ID300 SPECIFICATION

Geoplan Co.,Ltd.

Overview

- ID300 tag is a UWB device developed by Geoplan, which uses UWB standard compatible SR040 chip.
- ID300 tag is designed primarily to determine real-time location and can be used in various environments, including offices, hospitals, factories, and etc.
- The tag can replace ID card holders used by staff as it has card slot to hold employee cards.
- The tag can replace regular emergency buttons in the building as it has an emergency button on the back, with alarm sound and buzzer

Design



Specification

ID300 System Specification

Feature	Specification
Radio Transceiver	
UWB	IEEE 802.15.4/4z (NXP SR040), 8GHz
BLE	BLE 5.1, (QPG6100), 2.4GHz
Interface Support	
Button	1 button: Activate / Alarm / Battery check / Reset
Acceleration Sensor	Motion detection: BMA400
LED	1ea: 3color
Buzzer	Sound pressure level: Piezo MIN 70dB
Physical Characteristics	
Operating Temp	Temperature: -20 ~ +60 °C/Humidity: 5 ~ 90%RH
Storage Temp	Temperature: -40 ~ +70 °C/Humidity: 5 ~ 90%RH
Power supply	Coin batteries: CR2032 x 2ea
IP Classification	IP 54
Tag Material	Polycarbonate
Protective Film	0.24mm thick card protective film as a part of a tag
Battery Door	Attached with 4ea metal screws

ID300 Cleaning Specification

Avoid to use	Use with caution	Safe to use
acetone	cyclohexanone	0.5% accelerated hydrogen peroxide
acrylonitrile	diesel	ammonium chloride
ammonia	formic acid	antimony trichloride
amyl	gasoline	saturated aqueous solution of borax
acetate	glycerin	butane
benzene	kerosene	calcium hypochlorite
bromine	jet fuel/aviation fuel	potassium dichromate
butyl	concentrated peracetic acid/peroxide	carbon dioxide
acetate	isoamyl alcohol	carbon monoxide
sodium	terpineol	10% hydrogen cyanide
hydrosulfite		copper sulfate
chloroform		95% ethanol
dimethylformamide		ethylene glycol
concentrated hydrochloric acid		10% formaldehyde
iodine		20% salt/acid
methanol		5% hydrofluoric acid
butanol		hydrogen
styrene tetrafluoroethylene		methane
toluene		oxygen
concentrated sulfuric acid		ozone
xylene		solvent

Dimensions



LED Scenario

Operation Status	LED	LED Description
Red		Alarm Active/Battery Check
Blue		Factory Reset/Deep Sleep
Green		Battery Check

Button Scenario

1. Alarm Activate	Press the button for 3 seconds to activate an alarm. A beep sound and Red LED blinks indicate that the Alarm is active.
2. Alarm Cancel	Press the button twice quickly during activation to cancel the alarm.
3. Battery Check	Press the button for 6 seconds: Green blink: Battery life is over 20% (Buzzer sound: Mi-40%, Sol-60%, Do-80%) Red blink: Battery life is under 20% (Buzzer sound: 5 degree)
4. Factory Reset/Deep Sleep	Press the button for more than 10 seconds to trigger the device to enter deep sleep mode. Note: Location data is visible for 5 seconds after a factory reset.

FCC

Compliance Statement

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.

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.

Warning

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

UWB devices operating under the provisions of this section must be hand held, i.e., they are relatively small devices that are primarily hand held while being operated and do not employ a fixed infrastructure.

(1) A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being

received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

(2) The use of antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole, or any fixed outdoors infrastructure is prohibited. Antennas may be mounted only on the hand held UWB device.

(3) UWB devices operating under the provisions of this section may operate indoors or outdoors.

RF Exposure

This portable transmitter with its antenna complies with FCC RF exposure limits for general population / uncontrolled exposure.

FCC ID: 2ASPN-ID300

ISED

Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

This device may not cause interference.

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'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;
2. L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

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