

GO Nano Gateway

*Cargo monitoring solutions
User manual*

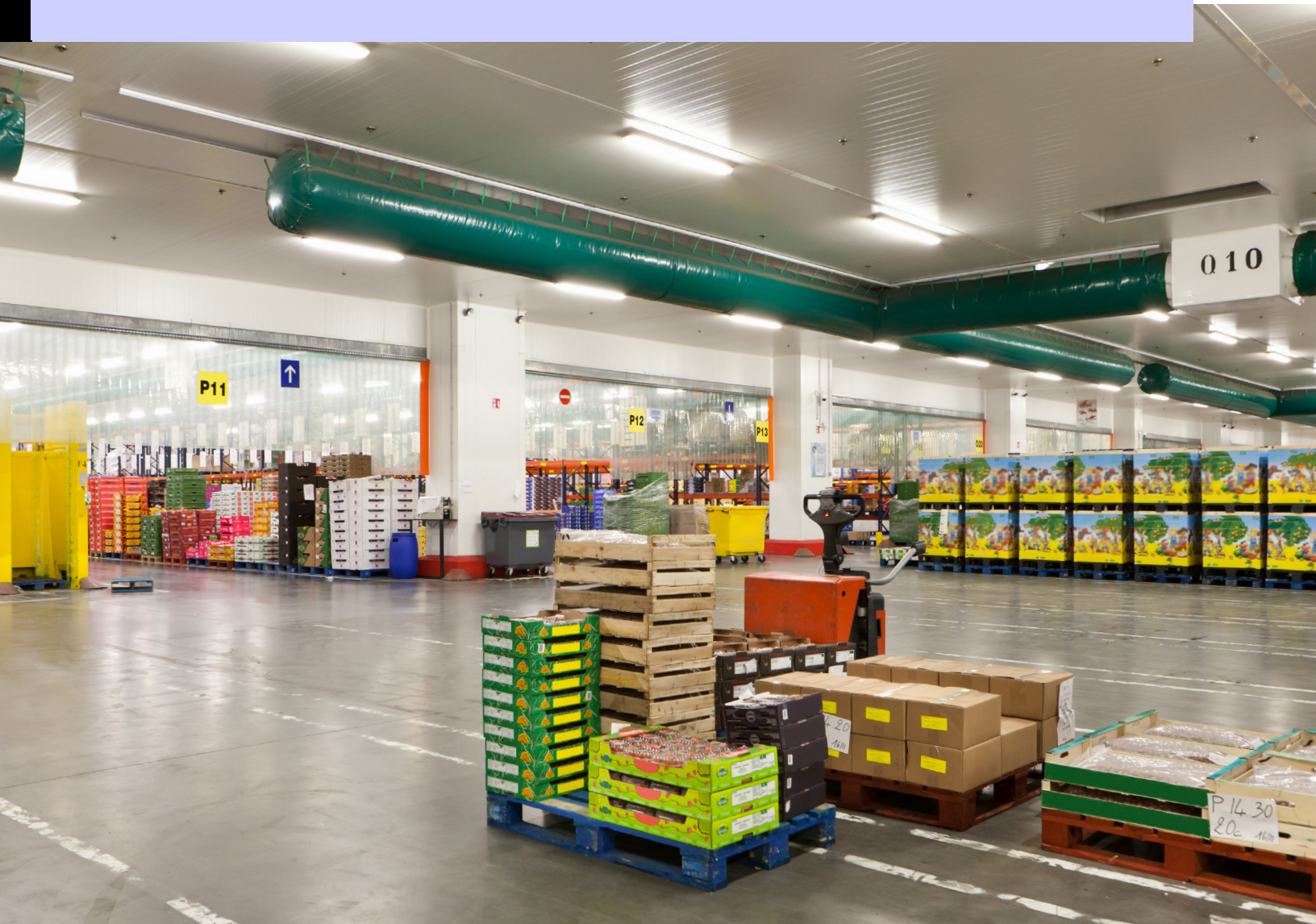


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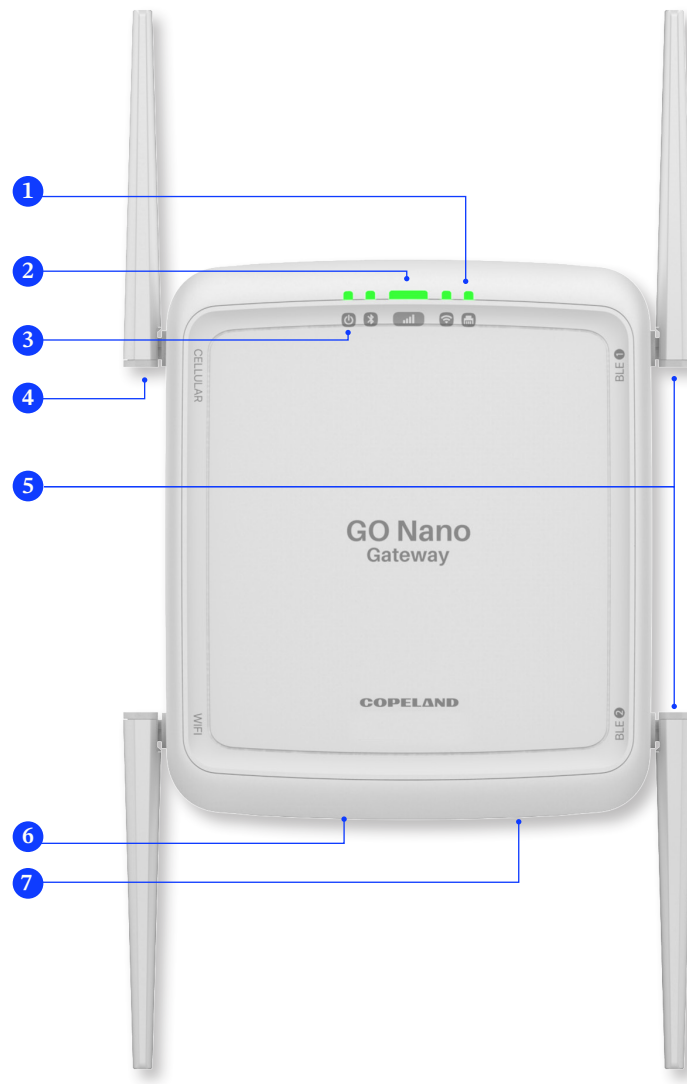
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Introduction

The GO Nano Gateway identifies and connects to GO Nano BLE temperature loggers, downloading the datasets and publishes to Oversight (cloud). To install your GO Nano Gateway(s), please follow these instructions.

Understanding the Device

- | | |
|--|--------------------------|
| 1. LED- Bluetooth Low Energy® connectivity | 5. BLE antenna |
| 2. LED- Cellular connection bar | 6. Reset button |
| 3. LED- Power on | 7. Power connection port |
| 4. Cellular antenna | |



In the box

1. User manual
2. GO Nano Gateway
3. Mounting bracket (back plate)
4. Power adapter
5. Mounting accessories



Safety information

IMPORTANT: Read and understand all safety instructions before beginning installation or use of this product.

- To ensure safe operation and prevent injury or equipment damage, always follow these safety guidelines:
- Maintain a clean and safe work area: Ensure the installation and operating areas are free of clutter, debris, and other hazards. A clean workspace reduces the risk of accidents and improves efficiency.
- Use appropriate personal protective equipment (PPE): Always wear suitable safety gear, including but not limited to gloves, safety glasses, hard hats, and protective footwear, as required for the task.
- Follow safe work practices: Use tools and equipment only as intended, and follow all local, state, and national safety codes and regulations. Never bypass safety mechanisms or procedures.
- Be aware of surroundings: Check for obstacles, unstable surfaces, or overhead hazards in the work area before starting any installation or maintenance activity.
- Stay alert and focused: Avoid distractions and never work under the influence of drugs, alcohol, or fatigue.
- Failure to adhere to these safety precautions may result in injury, equipment failure, or property damage. If you are unsure about any part of the installation or operation process, consult a qualified professional.
- To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel. The gateway device should only be repaired by Copeland. Contact customer service for authorized service. For online help and support, visit: <https://www.copeland.com/en-us/training-support/technical-support/monitoring-support>
- Do not expose your product to any liquids, which can cause a short circuit and overheating. The device, its adapter, and other accessories are not water resistant and should not be exposed to liquids.
- This device uses radios and other components that emit electromagnetic fields. These electromagnetic fields and magnets may interfere with pacemakers and other implanted medical devices. Always keep the product and its power adapter at a safe distance away from a pacemaker or other implanted medical device.

Installing of Gateway(s)

This section of the manual covers installation of your GO Nano Gateway. Please note that this device must be professionally installed and external factors may impact the performance of the gateway such as, but not limited to:

- Availability of 3rd party cellular infrastructure and distance to cellular towers
- Building materials and cellular
- Availability of power in preferred mounting locations
- Mounting locations and objects that may obstruct wireless connectivity.

Assembly of Gateway

Please ensure that the antennas are properly connected to their corresponding connectors. For example, the cellular antenna will not work if connected to a BLE connector and vice versa.

To power on the gateway, simply connect the power adapter to a wall outlet and then to the gateway. The GO Nano Gateway will power on and will be ready to read GO Nano BLE loggers within approximately 10 seconds of being powered on. Please allow 5-15 minutes (depending on cellular connectivity) for GO Nano BLE logger data to be visible in the Oversight Logger cloud platform.

For GO Nano BLE manual, please visit: <https://www.copeland.com/en-us/shop/tb60d-00>

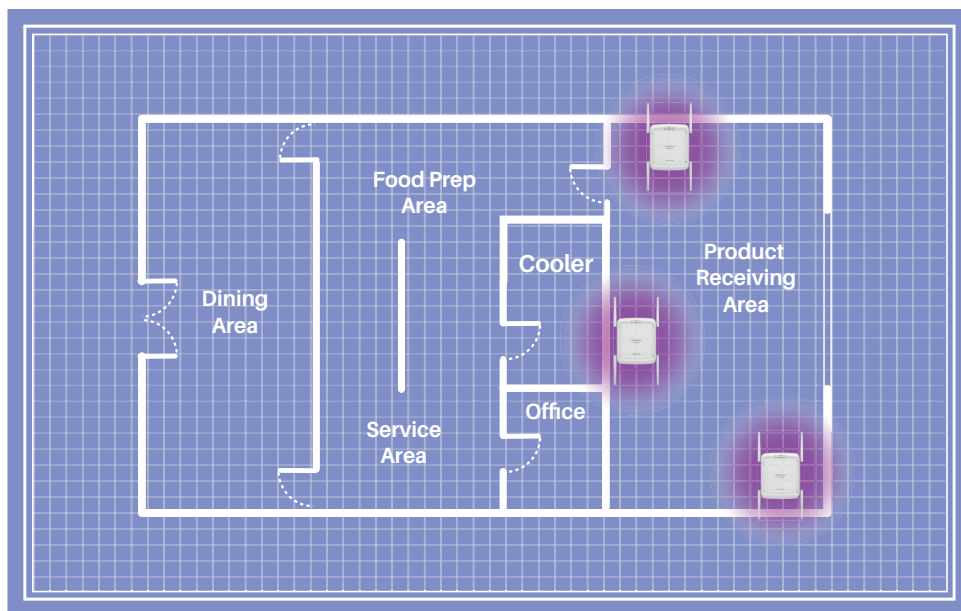
Gateway placement inside of a building

For best performance, it is recommended that the GO Nano Gateways are mounted approximately 10 feet (3M) above ground. This ensures the gateway has increased visibility of the area below and can detect GO Nano BLE loggers below. If this is not possible, it is recommended to mount the GO Nano Gateway in a place where GO Nano BLE loggers can be easily detected when in vicinity of gateway. Consider obstacles and other barriers that may impede on the gateway's ability to detect GO Nano BLE loggers. The following illustrations highlight some suggestions for gateway placements in various use cases:

Quick serve / restaurants

On the right is a representative illustration of a typical Quick Serve Restaurant. The GO Nano Gateway is placed in the receiving room (typically at the back of the establishment). The actual mounting location in this setup is flexible. It is however recommended that the gateway is mounted higher up on the walls in this room to ensure max visibility.

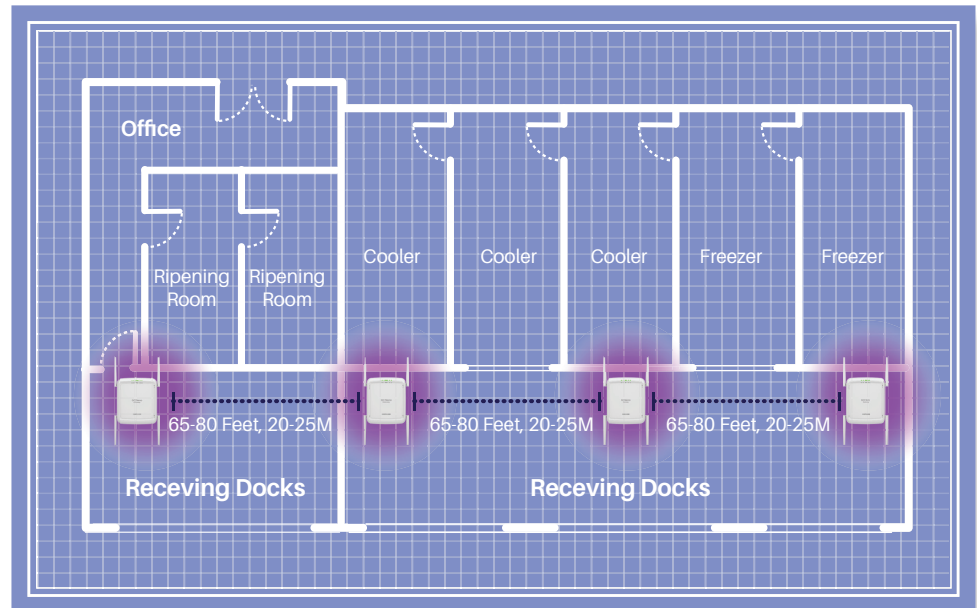
GO Nano Gateway suggested locations



Distribution centers (DCS)

Illustration on the right is that of a typical cold storage/distribution center. In this illustration it is recommended that the gateways are placed ~20-25M apart along the opposite wall of the receiving docks. This placement ensures the highest probability that the GO Nano Gateway detects GO Nano BLE loggers as pallets/product is offloaded

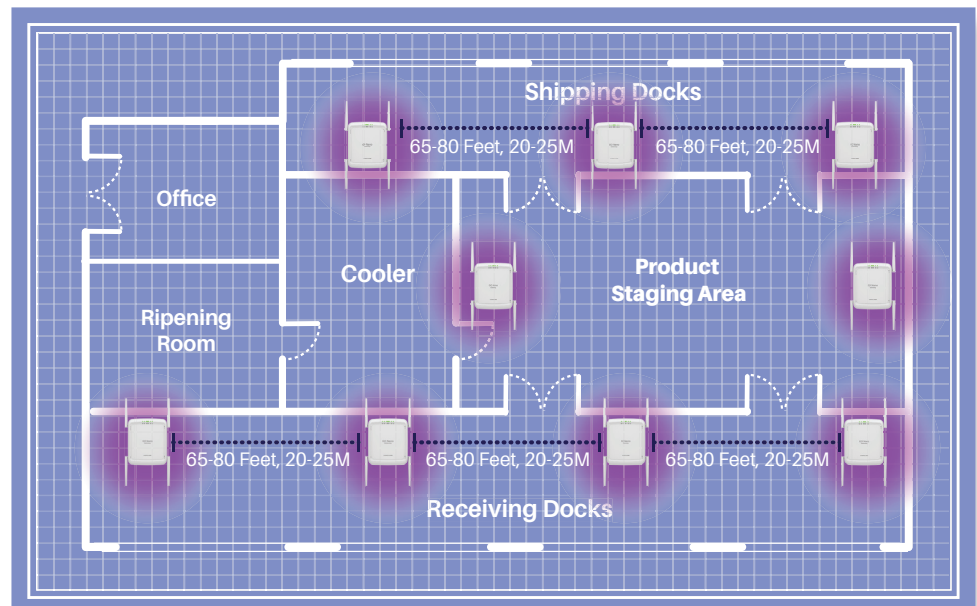
GO Nano Gateway suggested locations



Consolidation centers (Cold storage/DCS)

A consolidation center typically has two separate areas where GO Nano BLE loggers could be detected and read: receiving and shipping. On the right is an illustration of a consolidation center where gateways are placed strategically to ensure maximum coverage.

GO Nano Gateway suggested locations



Environmental compliance

EU WEEE



This product is required to comply with the European Union - Waste Electrical and Electronic Equipment (WEEE) Regulations.

This symbol on the product or its packaging indicates that this product is not to be disposed of with household waste, according to The Waste Electrical and Electronic Equipment (WEEE) Regulations and your national law. This product should be handed over to a designated collection point or to an authorized collection site for recycling Waste Electrical and Electronic Equipment.

By separating your waste equipment at the time of disposal, the separate collection and recycling you will help to conserve natural resources and ensure that the equipment is recycled in a manner that protects human health and the environment.

Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE and products of this type.

For more information about where you can drop off your waste for recycling, please contact your Local Authority responsible for WEEE disposal.

Germany – ElektroG Notice (Hinweis zur Entsorgung (Deutschland))

Notice for Users in Germany

In accordance with Section 10(1) Sentence 2 of the German Electrical and Electronic Equipment Act (ElektroG): Before disposing of this product, users must

- (i) remove any waste batteries or accumulators not enclosed within the device and any destructively removable lamps without damaging the device, and
- (ii) delete all personal data from the device.

In accordance with Section 17(1) and (2) ElektroG:

Many distributors are required to accept waste electrical equipment free of charge. Please check with your retailer or local municipal collection points.

§ 10 I 2 ElektroG: Vor der Entsorgung dieses Geräts (i) Altbatterien/-akkus, sofern sie nicht vom Gerät umschlossen sind, und zerstörungsfrei entnehmbare Lampen zerstörungsfrei trennen und (ii) alle personenbezogenen Daten löschen. § 17 I und II ElektroG: Viele Vertreiber müssen Altgeräte kostenlos zurücknehmen

EU Battery Regulation (2023/1542)



EU BATTERY REGULATION (2023/1542) INFORMATION

Brand: SHENZHEN UNITE TECHNOLOGY CO.,LTD

Model: BK310-4S1P-4.8V-3.1Ah

Chemistry: Nickel-Metal Hydride Battery (NiMH)

Manufacturer: SHENZHEN UNITE TECHNOLOGY CO.,LTD

Website: copeland.com

Email: cargosupport@copeland.com

Email cargosupport@copeland.com for SDS Sheet



This symbol indicates that the batteries in this product should be collected separately and not be disposed of with household waste. Substances in batteries can have a potential negative impact on the health and environment and you have a role in recycling waste batteries thus contributing to the protection, preservation, and improvement of the quality of the environment. You should contact your

local authority or retailer for details of the collection and recycling schemes available.n.

Regulation statements

FCC regulations

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

RF exposure information

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm during normal operation.

ISED notice

This device complies with Industry 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 d'Industrie 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 (8 inches) 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 (8 pouces) pendant le fonctionnement normal.

CE statement

Hereby, Copeland Cold Chain LP. declares that the radio equipment GO Nano Gateway is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://ec.europa.eu/docsroom/documents/9781/attachments/1/translations>

UKCA statement

Hereby, Copeland Cold Chain LP. declares that the radio equipment type GO Nano Gateway is in compliance with RER 2017 (SI 2017/1206).

The full text of the UK declaration of conformity is available at the following internet address: <https://www.gov.uk/guidance/ukca-marking-conformity-assessment-and-documentation>

Battery warning

Clause F.5 shall be provided to protect the battery from extreme conditions or user's abuse.

Examples that shall be considered include:

- replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
- a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas

Body distance warning

The device could be used with a separation distance of 20 cm to the human body.

Product support for BLE frequency and max power

As stated in the RF report Max EIRP power, please refer to the addition.

Operating Mode	Operating Frequency Range		Maximum Transmit Power (EIRP) dBm
	TX(MHz)	RX(MHz)	
Bluetooth LE	2400 – 2483.5		12.5

Operating Mode		Maximum Average Power (dBm)
LTE	Bands 1,3,5,8,20,28	25.00

Technical specifications

Cellular connectivity (LTE B1/3/8/20/28)	CATM/NB IoT
Bluetooth protocols	BLE 4, BLE 5
BLE scanning	Continuous
Data upload interval	5-minutes
Internal memory	Yes (256MB non-volatile flash)
Operating range	-20C to +60C (-4F to 140F) RH 0-99% (non-condensing)
Power	Continuous AC power (120-240V)
Battery backup	Yes (3.1AH) NiMH
Mounting options	Built-in mounting plate and accessories
Dimensions	175x200x55mm (6.9x7.9x2.16inches)
Weight	0.63kg (1.4 lbs)
IP rating	IP5X
Optimal storage conditions	Temperature: 5°C to 30°C. (41°F to 86° F) Humidity: < 70%
Certifications	 FCC ID: AMHBCWE, IC: 1024A-BCWE Z.I. Via dell'Industria, 27 32016 Alpago (BL) ITALY

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For terms and conditions and information regarding this product's warranty can be found here: <https://www.copeland.com/en-us/terms/copeland-cold-chain-terms>

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