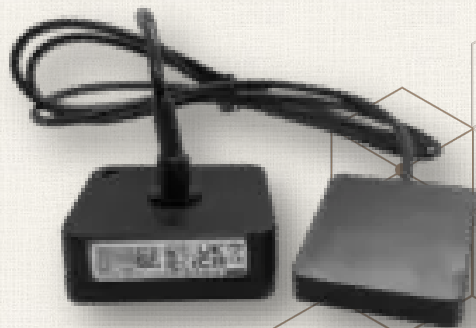


iBS03Q 製品仕様書

株式会社N-style

2026年08月版



iBS03Q は、IPx7防水のBLEビーコンで、浸水センサーを搭載しています。

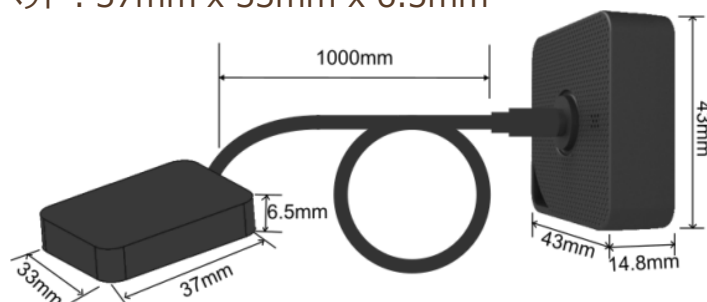
iBS03Q は、厳しい条件で動作するように頑丈に設計されています。

液面センサーは長さ1mで、金属容器なしで、厚さ12mm未満の液面検知に適しています。

■製品機能

【一般項目】

- ARM Cortex TM-M3 32-bit processor
- BLE 4.2 および BLE 5 長距離をサポート
- IPx7 防水性能
- 2.0 メートルの落下保護
- CR2450 バッテリー1個で駆動
- バッテリー寿命：一般的なビーコン設定で 3年 (30 秒の ADV 間隔)
- 設定用 Android アプリ
- パニック/アラーム ボタン
- 電源オン/オフ スイッチ (内部)
- サイズ: 43mm x 43mm x 14.8mm
- プローブサイズ: ケーブル長1m、センサーヘッド : 37mm x 33mm x 6.5mm
- 動作温度: -20℃ ~ 75℃
- 証明書: CE/FCC/IC/TELEC/NCC



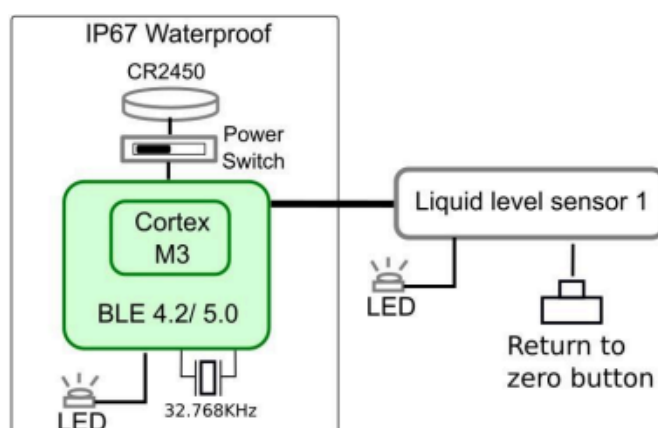
【センサー】

- 液面センサー

【RF】

- 2.4GHz 周波数帯域
- 最大送信電力 +5dB
- 受信感度: -97dBm @1Mbps、0.1% BER
- 最大送信電力 +5dB
- オンボード PCB アンテナ
- オープン スペースで >100M の範囲

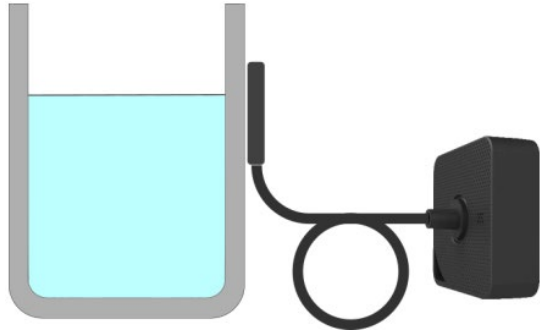
■ブロック図



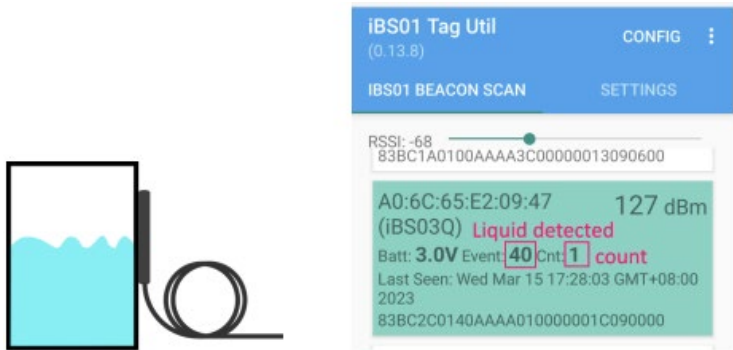
■ 送信間隔

モデル名	備考
iBS03Q	ユーザー設定可能：100ms～60分（デフォルト30秒）

◆ 検知方向別設置イメージ

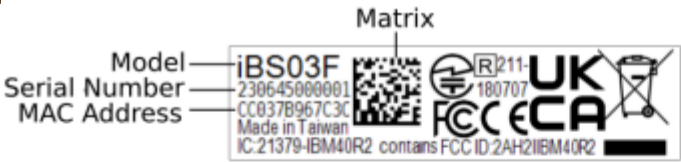


◆ 設置とデータ検知のイメージ



ゲートウェイと連携し、ビーコンメッセージを受信してクラウドサーバーに送信します。

■ 製品ラベル



Model : iBS03F

Serial Number : <Y><M><PC><SN>

<Y> Year code; 23:2023, 24:2024, ...

<M> Month code; 01:Jan, 02:Feb, ..., 11:Nov, 12:Dec

<PC> Product code; 45:iBS03F

<SN> Sequence number

MAC Address : There are 12 numbers in total

Matrix : Matrix contains serial number and MAC address

Example

iBS03F

SN:000001, manufactured in Jun, 2023.

The full MAC is CC037B967C3C

■ 絶対最大定格

供給電力	CR2450 バッテリー 1個
保管温度	-40° ~ 85° 摂氏

■ 推奨動作条件

動作温度	-20° ~ 75° 摂氏
VDD	CR2450 バッテリーで +3V
IPx7	1 メートルの水で 30 分

■ 消費電力

iBS03Q	平均 : 15.2uA*、デフォルトの30秒の送信期間。
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■ バッテリー寿命シミュレーション

iBS03Q	デフォルトの 30 秒の送信期間で 3年以上。
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※600mAH 容量の CR2450 バッテリー 1 個で計算。
バッテリーの放電特性を考慮して、計算には容量の50% ~ 80% のみを使用されます。
この値は参考値であり、コンポーネントの許容範囲や環境によって異なる場合があります。

以下、製造メーカーのINGICS TECHNOLOGY CO., LTD.の公式ドキュメントより引用。

Certification

Bluetooth SIG Qualification
Model number: iBS03Q
Declaration ID: D053258
Description: iBS sensor beacon

FCC Regulatory
2AH2IIBM40R2

NCC Regulatory
CCAH23LP7072T0

Japan MIC Regulatory
211-180707

IC Regulatory
21379-IBM40R2

CE Regulatory

iBS03Q has been tested and complies with the essential requirements of the DIRECTIVE 2014/53/EU.
Below is the copy of the CE Declaration of Conformity.

UKCA Regulatory

iBS03Q has been tested and complies with the essential requirements of the Radio Equipment Regulation 2017 with reference to the Standards applied listed in the following page.

Statement

Federal Communication Commission Interference Statement

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 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 Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

Industry Canada Statement

This device complies with Industry Canada licence-exempt RSS standard. 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 compromettre le fonctionnement.

IC Radiation Exposure Statement

This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux CNR-102 d'Industrie Canada. Cet équipement doit être installé et utilisé avec une distance minimale de 20 centimètres entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec autre antenne ou émetteur. Les antennes utilisées pour cet émetteur doivent être installés et fournir une distance de séparation d'au moins 20 centimètre de toute personne et doit pas être co-située ni fonctionner en conjonction avec une autre antenne ou émetteur.



技術的なご質問・お問い合わせはこちら

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公式HP : <https://nsty.co.jp/>