

Digital Broadcasting Device

Model: DTB05

Datasheet V1.0

| Part # | Description |
|--------|--|
| DTB05 | Red color and 100meters range beacon with 2pcs Alkaline AA batteries pre-installed; Bluetooth® 5.0, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon and Eddystone simultaneously. |

The Digital Broadcasting Device DTB05 is a custom beacon for indoor navigation that is 100meters range advertising.

It is loaded with Bluetooth® 5.0 hardware platform and MiniBeacon Plus intelligence software that advertises standard iBeacon, Eddystone (UID, TLM, INFO) simultaneously. It is attached to objects for indoor location, activity monitoring, asset tracking etc. so as to realize the remote data management. It is able to configure the indoor beacon DTB05 via configuration app BeaconSET+ to different parameters so that to meet different applications.

FEATURE

- Advertise iBeacon & Eddystone simultaneously
- Bluetooth® 5.0 chipset nRF52 series
- 5 years battery lifetime with default setting
- Non-replaceable 1.5V AA (LR6) batteries (default: Alkaline)
- The max. 150 meters advertising distance



APPLICATION

- Asset tracking
- Indoor location
- Activity monitoring
- Inventory tracking

ACTIVATE DTB05

- DTB05 will advertise the data after inserting the battery

CONFIGURATION TOOL

- BeaconSET+ (iOS & Android);

CERTIFICATION

- FCC Regulation
- CE Regulation
- Giteki

BATTERY ASSEMBLY

- Pre-installed 2pcs AA size (LR6) batteries ;

OPTIONAL BATTERY TYPE

| Battery Type (AA) | Operation Temperature | Capacity (single) | Total Capacity (DTB05) |
|-------------------|-----------------------|-------------------|--------------------------|
| Alkaline | -18 to 50°C | 2900mAh | 2900mAh |

Notes:

1. For both the sample and bulk orders, Minew would like to ship out DTB05 Indoor beacon with 2pcs alkaline AA batteries; Beacon is assembled by ultrasonic welding machine, battery can't be changed.
2. The battery type can be selected as different applications required for. Battery type will affect the unit price ;

ELECTRONIC PARAMETER

| Item | Value | Remarks |
|-----------------------|----------------------|--|
| Case Color | Red | Null |
| Battery Model | 2 x AA (LR6) | Alkaline batteries, 2900mAh, Nominal Voltage: 1.5V |
| Operation Voltage | 1.7-3.6V | DC |
| Transmission Circuit | 5.3mA (Max.) | Tested at 0dBm transmission power |
| Transmission Range | 150 meters | Maximum @ open space |
| Transmission Power | -20dBm to +4dBm | Configurable |
| Broadcasting Interval | 1000ms | configurable |
| Antenna | 50ohm | On board / PCB Antenna |
| Net Weight | 95.4g | With batteries |
| Size | 109.92 x 47.3 x 33MM | Null |

PARAMETER SETTING

Each Indoor beacon DTB05 has been pre-configured in the factory before the shipment. Here below is given the main parameters and default settings.

| Type | Item | Default Settings |
|-----------------|-----------------|--|
| UID | NameSpaceID | 8AF9501DF3D6924E423C |
| | Interval | 1000ms |
| | Power | -4dbm |
| TLM | Interval | 5000ms |
| | Power | -4dbm |
| Info | Device name | Plus |
| | Interval | 1000ms |
| | power | -4dbm |
| Base Parameters | Measured Power | -59 (0xC5) |
| | Radio Tx power | -4dBm |
| | Adv. Interval | 10(1000ms) |
| | Beacon ID | random, it is the MAC address of beacon. |
| | Beacon Name | Plus |
| | Connectable | yes (it is configuration mode) |
| | Password | minew123 (8 characters only) |
| Extra Function | Reset factory | available |
| | Power off | available |
| | Modify password | available |
| | Remove password | available |
| | Update firmware | available |

TECHNICAL DOCUMENT

| Item | Version | File Name | Date |
|-------------|---------|---|----------------------------|
| Datasheet | V1.0 | DTB05 Digital Broadcasting Device Datasheet | 15 th May, 2025 |
| Instruction | V2.0 | MiniBeacon Plus Configuration Instruction | 5 th May, 2018 |
| SDK | V2.0 | Both iOS and Android | 18 th May, 2018 |

PACKING INFORMATION



*Standard package

| Details | Carton |
|-----------------|-----------------|
| Quantity(DTB05) | 90pcs/carton |
| Net Weight | 8.6Kg/carton |
| Gross Weight | 10Kg/carton |
| Size | 32 x 23 x 40 CM |

FIRMWARE FLASH

1. J-LINK Programmer Kit;
2. Programming ports definition;

Please contact MINEW sales team to ask more related information if needed.

DECLARATION

The contents of this datasheet are subject to change without prior notice for further improvement.

Minew team reserves the right to explain all the terms of this datasheet.

CONTACT

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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. FCC warning: 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. 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.

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