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Product Information

Specifications

- **Product:** Digital Broadcasting Device
- **Part #:** DTB05
- **Manufacturer:** Minew
- **Operation Voltage:** 1.7-3.6V
- **Transmission Range:** 150 meters
- **Transmission Power:** -20dBm to +4dBm
- **Broadcasting Interval:** 1000ms
- **Antenna:** On board / PCB Antenna
- **Net Weight:** 95.4g
- **Size:** 109.92 x 47.3 x 33MM

Product Usage Instructions

Battery Assembly

- The DTB05 comes pre-installed with 2pcs AA-size (LR6) alkaline batteries. The battery type cannot be changed as the beacon is assembled using an ultrasonic welding machine.

Activating DTB05

- The DTB05 will start advertising data once the batteries are inserted.

Configuration Tool

- Use the BeaconSET+ app available for both iOS and Android devices to configure the DTB05.

Part Description

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.

INTRODUCTION

- The Digital Broadcasting Device DTB05 is a custom beacon for indoor navigation that has a 100-meter range for 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 remote data management.
- It can configure the indoor beacon DTB05 via the configuration app BeaconSET+ to different parameters so that it to meet different applications.

FEATURE

- Advertise iBeacon & Eddystone simultaneously
- Bluetooth® 5.0 chipset nRF52 series
- 5 years battery lifetime with the 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; the Beacon is assembled by an ultrasonic welding machine, battery can't be changed.
2. The battery type can be selected as the different applications required. 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 shipment.
- Below are 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 the 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
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Quantity(DTB 05)	90pcs/carton
Net Weight	8.6Kg/carton
Gross Weight	10Kg/carton
Size	32 x 23 x 40 CM

FIRMWARE FLASH

- J-LINK Programmer Kit;
- Programming ports definition;
- Please contact the MINEW sales team to ask for 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

- **Manufacturer:** Shenzhen Minew Technologies Co., Ltd.
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- **QingLong** Road, Longhua District, Shenzhen, 518109 China
- **Website:** <https://www.minew.com>

FCC

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
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 under 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 to 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 a minimum distance of 20cm between the radiator & your body.

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FAQ

- **Q: Can the battery type be changed for the DTB05?**
 - **A:** The battery type can be selected based on different applications' requirements, but it will affect the unit price.
 - The DTB05 comes pre-installed with alkaline AA batteries, and the battery type cannot be changed after assembly.

- **Q: What are the default settings for the DTB05 parameters?**
 - **A:** The default settings for parameters like NameSpaceID, UID, Power, Device name, Measured Power, Radio Tx power, and Adv.
 - Interval, Beacon ID, and others are pre-configured in the factory before shipment. Refer to the user manual for more details on default settings.

Documents / Resources

	MINEW DTB05 Digital Broadcasting Device [pdf] Owner's Manual DTB05, DTB05 Digital Broadcasting Device, Digital Broadcasting Device, Broadcasting Device, Device
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References

- [User Manual](#)

◆ Broadcasting Device, device, Digital Broadcasting Device, DTB05, DTB05 Digital Broadcasting Device, MINEW MINEW

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