

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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