



# DX-BT24-A

## MODULE SPECIFICATION

Version: 1.0

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## Update record

Version	Date	Illustrate	Author
V1.0	2023/04/01	Initial Version	DL

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## 1.1. Base Board Pin Description

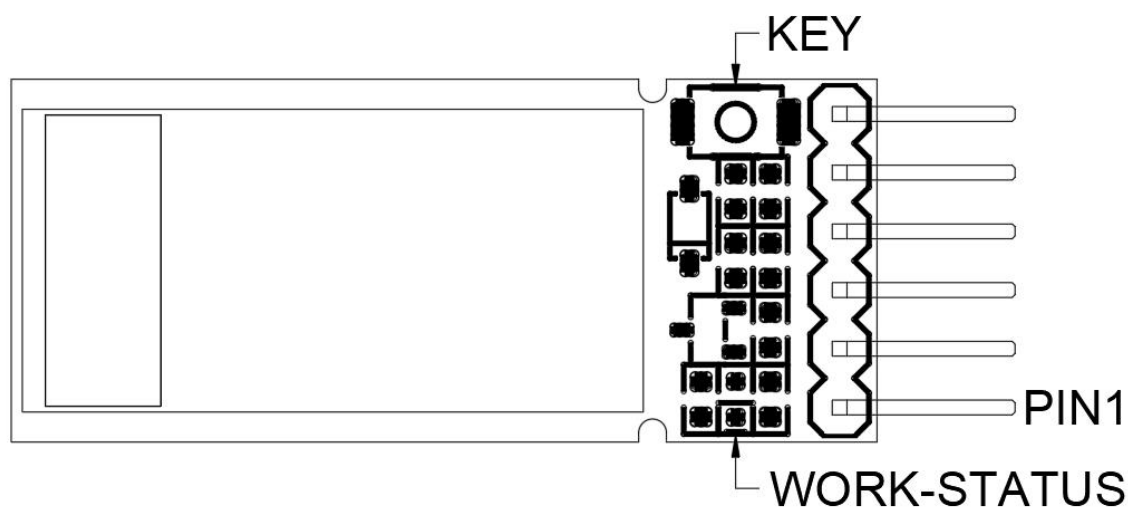


Table 1: TOP VIEW

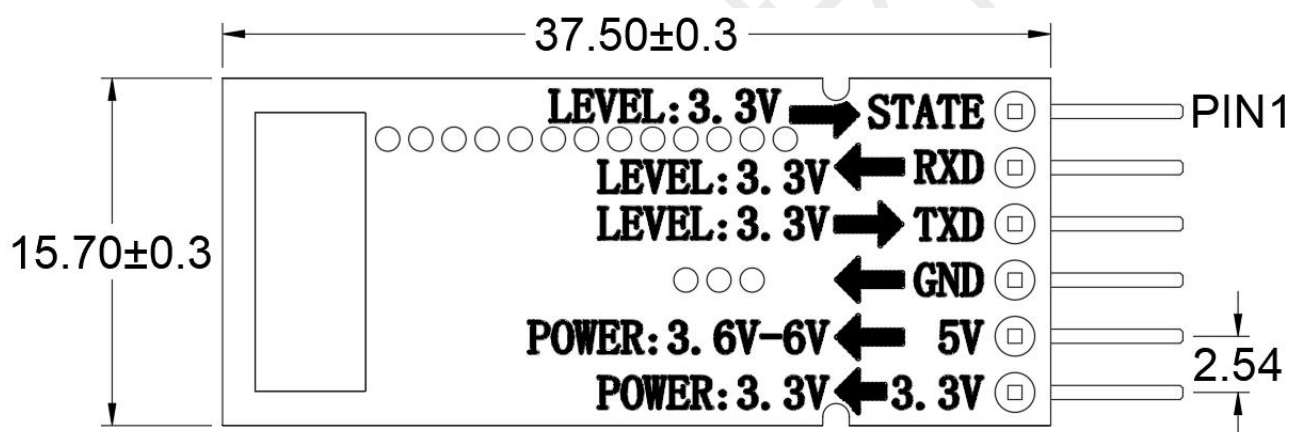


Table 2: BOTTOM VIEW

Pin number	Pin name	Pin function	illustrate
1	STATE	Bluetooth connection status pin	Not connected: Output low level Connection Status: output high level
2	RXD	Serial data input	UART-RX
3	TXD	Serial data output	UART-TX
4	GND	Power Ground	
5	5V	Power input pin	5V(Typical value)
6	3.3V	Power input pin	3.3V(Typical value)
7	KEY	Disconnect pin	For details, please refer to 1.2



8	WORK-STATUS	Module working status output pin	Low power mode wake up	For details, please refer to 1.2
			Enter pairing mode	For details, please refer to 1.2
			slave module	Not connected: 1s high 1s low Connection Status: 3s high 50ms low
			Master module	Searching and connecting: 300ms high 300ms low Connection status: always high

## NOTE

Please refer to the BT24 manual for module specific parameters

## 1.2. KEY Pin Definition

Table 1: KEY pin function definition table

Program	State	Method of operation	result
slave module	Connection Status	Pull down the KEY pin for at least 200ms and then release	disconnect
	Low power state	Pull down the KEY pin for at least 200ms and then release	wake
	standby mode	Pull the KEY pin low for at least 100ms (can be released after being connected)	pairing mode
master module	Connection Status	Pull down the KEY pin for at least 200ms and then release	disconnect
	standby mode	Pull down the KEY pin for at least 200ms and then release	Clear memory address code

Remark



Pairing mode: After the slave module enters pairing mode, after the search mode of the master module is set to pairing mode, the master module will automatically connect to the slave module. This pairing mode is only valid for our main module.

**This device is intended only for OEM integrators under the following conditions:**

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) This device and its antenna(s) must not be co - located with any other transmitters except in accordance with FCC multi - transmitter product procedures. Referring to the multi - transmitter policy, multiple - transmitter(s) and module(s) can be operated simultaneously without C2P.
- 3) For all products market in US, OEM has to limit the operation channels in CH1 to CH40 for 2.4G band by supplied firmware programming tool. OEM shall not supply any tool or info to the end - user regarding to Regulatory Domain change. **USERS MANUAL OF THE END PRODUCT:** In the users manual of the end product, the end user has to be informed to keep at least 20cm separation with the antenna while this end product is installed and operated.

The end user has to be informed that the FCC radio - frequency exposure guidelines for an uncontrolled environment can be satisfied. The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment. If the size of the end product is smaller than 8x10cm, then additional FCC part 15.19 statement is required to be available in the users manual: This device complies with Part 15 of 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.

**LABEL OF THE END PRODUCT:** The final end product must be labeled in a visible area with the following " Contains FCCID: 2ADMF-DX-BT24". If the size of the end product is larger than 8x10cm, then the following FCC part 15.19 statement has to also be available on the label: This device complies with Part 15 of 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.

- OEM integrator is responsible for ensuring that the end-user has no manual instructions to remove or install module.
- That module is limited to installation in mobile or fixed applications, according to Part 2.1091(b)
- Separate approval is required for all other operating configurations, including portable configurations with respect to Part 2.1093 and different antenna configurations