

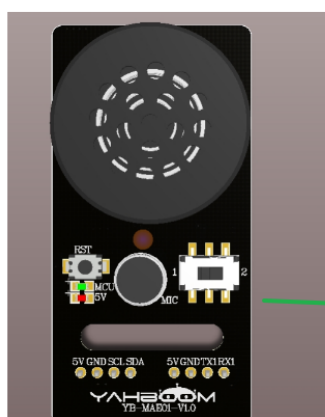
Quick Start

The voice recognition function firmware has been burned in the factory, and users can quickly experience it without burning. If you need to add other recognition entries, if you need to reburn other firmware, customize entries, you can go to the "3. Customize Protocol Entry Production" tutorial to see how to customize entries.

1. Preparation before use

1. A type-c data cable
2. Voice interaction module

2. Device connection



3. Voice recognition and broadcast implementation

After the voice interaction module is powered by type-c, the module can be awakened by the wake-up word **"Hi, Yahboom"**. If the module is successfully awakened, it will reply **"I am here"**, indicating that the current time can recognize the voice state. If the command entry is not recognized within 20 seconds, the module will enter sleep mode and broadcast "I'm going to rest". If you want to wake up the module again, you can say the wake-up word again.

The factory firmware comes with command words and broadcast words. You can view the protocol list in the provided data attachment. The figure below captures the contents of some command word broadcast word protocol lists. You can view what function the corresponding command word represents by function type. The broadcast word that needs to be broadcast is a passive broadcast word. It needs to send the corresponding command to the voice interaction module through the computer serial port or other single-chip microcomputer or main control device to trigger it. The specific figure can be seen below.

Function words:

语义标签 Semantic Tags	命令词 Command word	功能类型 Function Type	播报语句 Broadcast sentence	播报模式 Broadcast mode	发送协议 Sending Agreement	接收协议 Receiving Agreement
1	WELCOME	欢迎语 Welcome	welcome	被 Passive	AA 55 01 00 FB	AA 55 01 00 FB
2	BYE	休息语 Break time	bye	主 Active	AA 55 02 00 FB	AA 55 02 00 FB
3	HI-YAHBOOM	唤醒词 Wake-up word	I am here	主 Active	AA 55 03 00 FB	AA 55 03 00 FB
4	VOLUME-UP	增大音量 Increase volume	Volume Up	主 Active	AA 55 04 00 FB	AA 55 04 00 FB
5	VOLUME-DOWN	减小音量 Decrease volume	Volume down	主 Active	AA 55 05 00 FB	AA 55 05 00 FB
6	MAX-VOLUME	最大音量 Maximum volume	Maximum volume	主 Active	AA 55 06 00 FB	AA 55 06 00 FB
7	MID-VOLUME	中等音量 Medium volume	Medium volume	主 Active	AA 55 07 00 FB	AA 55 07 00 FB
8	MINI-VOLUME	最小音量 Minimum volume	Minimum Volume	主 Active	AA 55 08 00 FB	AA 55 08 00 FB
9	START-REPORT	开播报 On broadcast	Start broadcasting	主 Active	AA 55 09 00 FB	AA 55 09 00 FB
10	STOPT-REPORT	关播报 Off broadcast	Stop Broadcast	主 Active	AA 55 0A 00 FB	AA 55 0A 00 FB

Command words:

11	ROBOT-STOP	命令词	ok I am stop	主	AA 55 00 01 FB	AA 55 00 01 FB
12	STOP	命令词	ok I am stop	主	AA 55 00 02 FB	AA 55 00 02 FB
13	ROBOT-SLEEP	命令词	ok dormant	主	AA 55 00 03 FB	AA 55 00 03 FB
14	GO-AHEAD	命令词	ok let's go	主	AA 55 00 04 FB	AA 55 00 04 FB
15	BACK	命令词	ok I am back	主	AA 55 00 05 FB	AA 55 00 05 FB
16	TURN-LEFT	命令词	ok I am turning left	主	AA 55 00 06 FB	AA 55 00 06 FB
17	TURN-RIGHT	命令词	ok I am turning right	主	AA 55 00 07 FB	AA 55 00 07 FB
18	ENTER-A-MODE	命令词	ok I am working on A mode	主	AA 55 00 08 FB	AA 55 00 08 FB
19	ENTER-B-MODE	命令词	ok I am working on B mode	主	AA 55 00 09 FB	AA 55 00 09 FB
20	CLOSE-LIGHT	命令词	ok light is closed.	主	AA 55 00 0A FB	AA 55 00 0A FB
21	RED-LIGHT-UP	命令词	ok red light is on	主	AA 55 00 0B FB	AA 55 00 0B FB
22	GREEN-LIGHT-UP	命令词	ok green light is on	主	AA 55 00 0C FB	AA 55 00 0C FB
23	BLUE-LIGHT-UP	命令词	ok blue light is on	主	AA 55 00 0D FB	AA 55 00 0D FB
24	YELLOW-LIGHT-UP	命令词	ok yellow light is on	主	AA 55 00 0E FB	AA 55 00 0E FB
25	LIGHT-A	命令词	ok light a is on	Active	AA 55 00 0F FB	AA 55 00 0F FB
26	LIGHT-B	命令词	ok light b is on	主	AA 55 00 10 FB	AA 55 00 10 FB
27	LIGHT-C	命令词	ok light c is on	主	AA 55 00 11 FB	AA 55 00 11 FB
28	DISPLAY-POWER	命令词	ok the battery level is display	主	AA 55 00 12 FB	AA 55 00 12 FB
29	GO-TO-THE-POINT-A	命令词	ok I am going to the point a	主	AA 55 00 13 FB	AA 55 00 13 FB
30	GO-TO-THE-POINT-B	命令词	ok I am going to the point b	主	AA 55 00 14 FB	AA 55 00 14 FB
31	GO-TO-THE-POINT-C	命令词	ok I am going to the point c	主	AA 55 00 15 FB	AA 55 00 15 FB
32	GO-TO-THE-POINT-D	命令词	ok I am going to the point d	主	AA 55 00 20 FB	AA 55 00 20 FB
33	BACK-TO-ORIGIANL	命令词	ok I am return back	主	AA 55 00 21 FB	AA 55 00 21 FB
34	CLOSE-TRACKING-MODE	命令词	ok tracking mode is closed	主	AA 55 00 16 FB	AA 55 00 16 FB
35	TRACK-RED-LINE	命令词	ok I will track the red line	主	AA 55 00 17 FB	AA 55 00 17 FB
36	TRACK-GREEN-LINE	命令词	ok I will track the green line	主	AA 55 00 18 FB	AA 55 00 18 FB
37	TRACK-BLUE-LINE	命令词	ok I will track the blue line	主	AA 55 00 19 FB	AA 55 00 19 FB
38	TRACK-YELLOW-LINE	命令词	ok I will track the yellow line	主	AA 55 00 1A FB	AA 55 00 1A FB
39	MODE-ON	命令词	ok mode on	主	AA 55 00 18 FB	AA 55 00 18 FB
40	MODE-OFF	命令词	ok mode off	主	AA 55 00 1C FB	AA 55 00 1C FB
41	WARNING	命令词	ok	主	AA 55 00 26 FB	AA 55 00 26 FB
42	LIFT-THE-ARM-UP	命令词	ok the arm has been raised	主	AA 55 00 27 FB	AA 55 00 27 FB
43	PUT-THE-ARM-DOWM	命令词	ok the arm is down	主	AA 55 00 28 FB	AA 55 00 28 FB
44	ARM-LEFT	命令词	ok the arm has turned left	主	AA 55 00 29 FB	AA 55 00 29 FB
45	ARM-RIGHT	命令词	ok the atm has turned right	主	AA 55 00 2A FB	AA 55 00 2A FB
46	CLAMP-THE-DIP	命令词	ok the clip is damped	主	AA 55 00 2B FB	AA 55 00 2B FB
47	OPEN-THE-DIP	命令词	ok the clip has been opened	主	AA 55 00 2C FB	AA 55 00 2C FB

Announcement words:

84	THIS-IS-RED	命令词	this is red	被	AA 55 FF 5F FB	AA 55 FF 5F FB
85	THIS-IS-BLUE	命令词	this is blue	被	AA 55 FF 60 FB	AA 55 FF 60 FB
86	THIS-IS-GREEN	命令词	this is green	被	AA 55 FF 61 FB	AA 55 FF 61 FB
87	THIS-IS-YELLOW	命令词	this is yellow	被	AA 55 FF 62 FB	AA 55 FF 62 FB
88	THERE-IS-GREEN	命令词	there is green	被	AA 55 FF 63 FB	AA 55 FF 63 FB
89	THERE-IS-YELLOW	命令词	there is yellow	被	AA 55 FF 64 FB	AA 55 FF 64 FB
90	THERE-IS-BLUE	命令词	there is blue	被	AA 55 FF 65 FB	AA 55 FF 65 FB
91	THERE-IS-RED	命令词	there is red	被	AA 55 FF 66 FB	AA 55 FF 66 FB
92	I-AM-READY	命令词	I am ready	被	AA 55 FF 67 FB	AA 55 FF 67 FB
93	WHICH-IS-THE-FIRST-COLOR-TO-SORT	命令词	Which is the first color to sort	被	AA 55 FF 68 FB	AA 55 FF 68 FB
94	WHICH-IS-THE-SECOND-COLOR-TO-SORT	命令词	Which is the second color to sort	被	AA 55 FF 69 FB	AA 55 FF 69 FB
95	WHICH-IS-THE-THIRD-COLOR-TO-SORT	命令词	Which is the third color to sort	被	AA 55 FF 6A FB	AA 55 FF 6A FB
96	WHICH-IS-THE-LAST-COLOR-TO-SORT	命令词	Which is the last one to sort	被	AA 55 FF 6B FB	AA 55 FF 6B FB
97	THIS-IS-A-ACN-WHICH-IS-RECYCLABLE	命令词	This is a can, which is recyclable	被	AA 55 FF 6C FB	AA 55 FF 6C FB
98	THIS-IS-OLD-SCHOOL-BAG-WHICH-IS-RECYCLABLE	命令词	This is an old school bag, which is recyclable	被	AA 55 FF 6D FB	AA 55 FF 6D FB
99	THIS-IS-A-NEWSPAPER-WHICH-IS-RECYCLABLE	命令词	This is a newspaper, which is recyclable	被	AA 55 FF 6E FB	AA 55 FF 6E FB
100	THIS-IS-A-BOOK-WHICH-IS-RECYCLABLE	命令词	This is a book, which is recyclable	被	AA 55 FF 6F FB	AA 55 FF 6F FB
101	THIS-IS-A-SYRINGE-WHICH-IS-TOXIC-WASTE	命令词	This is a syringe, which is toxic waste	被	AA 55 FF 70 FB	AA 55 FF 70 FB
102	THIS-IS-A-WASTE-BATTERY-WHICH-IS-TOXIC-WASTE	命令词	This is a waste battery, which is toxic waste	被	AA 55 FF 71 FB	AA 55 FF 71 FB
103	THIS-IS-A-EXPIRED-COSMETICS-WHICH-IS-TOXIC-WASTE	命令词	This is a waste battery, which is toxic waste	被	AA 55 FF 72 FB	AA 55 FF 72 FB
104	THIS-IS-A-EXPIRED-MEDICINE-WHICH-IS-TOXIC-WASTE	命令词	This is a expired medicine, which is toxic waste	被	AA 55 FF 73 FB	AA 55 FF 73 FB
105	THIS-IS-A-FISH-BONE-WHICH-IS-WET-WASTE	命令词	This is a fish bone, which is wet waste	被	AA 55 FF 74 FB	AA 55 FF 74 FB
106	THIS-IS-A-WATERMELON-RIND-WHICH-IS-WET-WASTE	命令词	This is a watermelon rind, which is wet waste	被	AA 55 FF 75 FB	AA 55 FF 75 FB
107	THIS-IS-APPLE-CORE-BONE-WHICH-WET-WASTE	命令词	This is a apple core, which is wet waste	被	AA 55 FF 76 FB	AA 55 FF 76 FB
108	THIS-IS-A-EGG-SHELLS-WHICH-WET-WASTE	命令词	This is a egg shells, which is wet waste	被	AA 55 FF 77 FB	AA 55 FF 77 FB
109	THIS-IS-A-DISPOSABLE-CHOPSTICKS-WHICH-DRY-WASTE	命令词	This is a disposable chopsticks, which is dry waste	被	AA 55 FF 78 FB	AA 55 FF 78 FB
110	THIS-IS-A-CIGARETTE-BUTT-WHICH-DRY-WASTE	命令词	This is a cigarette butt, which is dry waste	被	AA 55 FF 79 FB	AA 55 FF 79 FB
111	THIS-IS-A-PEACH-CORE-WHICH-DRY-WASTE	命令词	This is a peach core, which is dry waste	被	AA 55 FF 80 FB	AA 55 FF 80 FB
112	THIS-IS-A-TOILET-PAPER-WHICH-DRY-WASTE	命令词	This is a toilet paper, which is dry waste	被	AA 55 FF 8A FB	AA 55 FF 8A FB

There are two announcement modes, one is active and the other is passive

- Active announcement: When we say the command words according to the table, the module will actively announce the corresponding sentences. After waking up, we say **"Go ahead"**, and the module will actively announce **"OK, let's go"** after recognizing it
- Passive broadcast: The instructions in the protocol table need to be sent to the voice module through the serial port, and the module will broadcast the corresponding sentence. You can also write the corresponding broadcast data to the register for passive broadcast according to the iic protocol. For details, please see **《3. Multi-master communication》**