

## JQ8400-FL voice chip manual V1.5

**First, the chip features**

- ◆ Support MP3 WAV hardware decoding
- ◆ Support FAT file system
- ◆ Support sampling rate (KHz): 8/11.025/12/16/22.05/24/32/44.1/48
- ◆ 24-bit DAC output internal DSP hardware decoding, non-PWM output, dynamic range support 90dB, letter 85dB
- ◆ Multiple control modes, two-wire serial port mode, one-line serial port control
- ◆ Support SPIFLASH simulation into U disk, directly update SPIFLASH as U disk
- ◆ Supports previous song, next song, play, pause, stop, selection, etc.
- ◆ Support for track number acquisition, total track and total track listing, etc.
- ◆ Support various information queries and easily obtain the current state of the voice chip
- ◆ Supports the insertion of specified tracks, that is, you can pause the currently playing music, play the inserted tracks, and return after playback.  
Play back at the original track breakpoint
- ◆ support for Chinese and English path insertion, in addition to the specified track insertion, but also supports the specified path insert, only need to send the path to insert broadcasts can be easily implemented
- ◆ Support the specified Chinese and English path to play, do not need to know the serial number of the content to be played, directly send the path  
You can.
- ◆ Support intelligent combination play, the combination of songs in a specific folder, send the track name can be combined.
- ◆ Support 30 levels of volume adjustment
- ◆ Support 5 kinds of EQ adjustment
- ◆ Support 7 kinds of playback mode control, can adapt to different applications
- ◆ Support cycle setting, more applications, more humane
- ◆ Support system deep sleep, the current after sleep is as low as 600 microamperes, can wake up through the serial string and instruction IO
- ◆ Support fast forward and rewind at specified time
- ◆ Support repeat reading for a specified period of time
- ◆ Supports specifying playback from the specified point in time
- ◆ Dedicated BUSY signal output indication
- ◆ Mature instructions and instruction parsing make applications more stable
- ◆ Special matching upper computer, quick start, convenient debugging, automatic generation of instructions

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

Second, examples of applications

- 1, car navigation voice broadcast;
- 2, road transport inspection, toll station voice prompts;
- 3, voice prompts for security check at the train station and bus station;
- 4. Voice prompts for power, communications, and financial offices;
- 5. Verification of voice prompts for vehicles entering and exiting the channel;
- 6, public security border inspection voice prompts;
- 7. Multi-channel voice alert or device operation guide voice;
- 8. Electric sightseeing car safety driving voice announcement;
- 9, automatic mechanical and electrical equipment failure alarm;
- 10, fire alarm voice alarm;
- 11, automatic broadcast equipment, time broadcast;
- 12, treadmill voice navigation;

Three . Chip instructions

The JQ8400 voice chip selects the SOC solution, integrates a 16-bit MCU, and a dedicated pin  
The audio decoding ADSP uses a hard decoding method to ensure the stability and sound quality of the system. Small size  
More meet the needs of embedding other products.

**SPI-flash change voice content**

The biggest advantage of this chip is that it can flexibly replace voice content in SPI-flash, eliminating the need for traditional voice.  
The chip needs to install the host computer to change the voice troubles. SPI FLASH simulates the U disk directly, just like copying the U disk.  
Very convenient. Makes product development and production easy and simple. One-line serial port control mode, RX232 serial port control  
Optional, provide more selectivity for research and development.

Connect the USB data cable to the chip and plug in the computer. The computer will automatically recognize it as shown in the following figure:

Then double-click on the new disk and copy the sound you want to place.

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

Fourth, hardware parameters

name	parameter
	1, support all bit rate 11172-3 and ISO13813-3 layer3 audio decoding

MP3 file format	2. Sample Rate Support (KHZ): 8/11.025/12/16/22.05/24/32/44.1/48
	3, support Normal, Jazz, Classic, Pop, Rock and other audio effects
USB interface	2.0 standard
UART interface	One-line serial port, standard serial port, TTL level
Input voltage	DC 3.3-5.5V is best 4.2V, IO level is 3.3V
Rated current	Sleep current: 500uA; Operating current: 10MA
IC package	Standard SOP16
Operating temperature	-40 degrees to 85 degrees
humidity	5% ~ 95%

Five, chip pin description

Pins	Marked	Instructions
1	P01	SPIFLASH data pin
2	P00	SPIFLASH clock pin
3	P35	SPIFLASH Chip Select
4	P02	Busy signal pin, high for playback, low for others
5	USBDM	USB DM feet
6	USBDP	USB DP pin

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

JQ840 00-FL voiceSound chip useManual V1.5		
7	VCOM	Audio Decoupling capacitor
8	AGND	Simulated ground frequency
9	DACL	DAC audio output left channel
10	DACR	DAC audio output right channel
11	3.3V	Internal LDO output 3V, current 100mA
12	VMCU	Chip supply pin 3-5. 0V
13	GND	Power supply

14	P24	Chip Serial port Send data
15	P25	Chip Serial port receive TX foot
16	VPP	StringSerial port

### six,One-line serial communication Association

Sda Send data Send port, send voice address Send low bit The following example 6944

insOnctio(Hex)	Features	Instructions
Shenzhen JiaTang Huo Chip Division	0755-825 95923	Technical support: 840039 906
Address: Shenzhen Minzhu Avenue Building	Website: www.jt0755.com	4

### JQ8400-FL voice chip manual V1.5

00	Number 0	Numbers 0-9 can be used
01	Number 1	To the function of numbers, than
02	Number 2	Such as selection, setting tone
03	Number 3	Quantity, setting EQ, setting
04	Number 4	Cycle mode, settings pass
05	Number 5	Channel, setting up an episode
06	Number 6	Head, starting with digital
07	Number 7	Functional instructions
08	Number 8	
09	Number 9	
0A	Clear the number	Clear the sent number
0B	Selection confirmation	Match

0C	Set the volume	Together
0D	Set up EQ	number
0E	Set the cycle mode	word
0F	Set up the channel	real
10	Set up an episode	Now
11	Playing	
12	time out	
13	stop	
14	previous piece	

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

#### JQ8400-FL voice chip manual V1.5

15	next track	<b>Control instructions:</b>
16	Previous directory	0x00~0x09: Only indicated The number 0~9.
17	Next directory	0x0a: for Single-byte control instructions for clearing Empty the last received number.
18	Select SD card	
19	Select U disk	0x0b~0x10: multiple words Section control instructions, need and Use 0x00~0x09.
1A	Select FLASH	
1B	System sleep	0x11~0x1c: is Single-byte control instructions, just To send a control instruction

can.

#### One-line serial port MP3 file naming rules:

The file name must be 5 digits, which is the track number of the file. Selection Play Instruction (0xb) is identified by this number. As shown below.

To put it in the root directory, open the drive letter.

Example 1: Setting the Volume to 20

The procedure is as follows: **Clear Digital** -> **Volume 20** -> **"Set Volume"** control command.

Send code      0x0A- > 0x02->0x00 -> 0x0C

Using the microcontroller to send the function is as follows:

SendData(0x0a);

SendData(0x02);

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

#### JQ8400-FL voice chip manual V1.5

SendData(0x00);

SendData(0x0c);

Before using a multi-byte control instruction, **it is best to send the "Clear Digit" instruction first and then send the new number.**

Example 2: Select Track Number 2 Play

The procedure is as follows: **Clear number**-> **track number** -> **"chore play"** control instruction.

Send code      0x0A- > 0x02 -> 0x0b

Using the microcontroller to send the function is as follows:

SendData(0x0a);

SendData(0x02);

SendData(0x0b);

Selected track number 15 Play

SendData(0x0a);

SendData(0x01);

SendData(0x05);

SendData(0x0b);

Example 3: Start playing

The steps are as follows: **"Start play"** control instruction.

Send code              0x11              . Just send a 0x11.

Using the microcontroller to send the function is as follows:

SendData(0x11);

C51 Send Subfunction Description: For using different frequencies, different types of microcontrollers need to be modified Delay1us delay function.

Void Delay1us ( int T )//Delay function

{

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: www.jq0755.com

JQ8400-FL voice chip manual V1.5

While ( T-- );

}

Void SendData (u8 addr )//send function.

{

U8 i;

EA = 0; /\* Turn off interrupts when sending to prevent interrupts affecting timing. \*/

Sda = 1; /\* starts to pull up \*/

Delay1us ( 1000 );

Sda = 0; /\* start boot code \*/

Delay1us (2200); /\* where the delay is at least 2ms, the delay of this parameter is 310ms \*/

For (i = 0; i < 8; i++ ) /\*8 data total\*/

{

Sda = 1;

If (addr & 0x01 ) /\*3:1 represents data bit 1, each bit is represented by two pulses \*/

{

Delay1us ( 500 );

Sda = 0;

Delay1us ( 210 );

}

Else /\*1:3 indicates data bit 0, each bit is represented by two pulses \*/

{

Delay1us ( 210 );

Sda = 0;

Delay1us ( 500 );

}

Addr >>= 1;

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: www.jq0755.com

---

```

    }
    Sda = 1;
    EA = 1; // Resume interrupt
}

```

#### A serial line instructions and precautions:

- 1, because it is the test pulse width ratio, it is recommended to use the oscilloscope debug for the first time.
2. The delay requirement of the pilot code is greater than 2MS. 4MS delay is recommended.
- 3, pulse ratio base number can be identified in 2-5, for example, 4:1 will be recognized as 1
- 4, the function sending process is recommended to close the relevant interrupt, so as not to affect the waveform accuracy
5. The delay between two bytes is recommended to be above 10MS.
- 6, Delay1us (); function is written according to the customer's own MCU, subject to the actual test
- 7, the instructions are single-byte operations, such as the previous song as long as sending 0x14
8. Song selection operation: firstly send the corresponding track number, and then send the selection song confirmation (0x0B), other required numbers  
With the method can be operated in this way

#### Seven, two-wire serial communication

Two-wire serial port to specify the path to play

1. The two-wire serial port supports Chinese and English numbers and other groups. It is recommended that the folder name and file name should not be The client uses two characters plus a combination of \*.
- 2, if the folder or file name with the letter, the letter requires all uppercase
- 3, pay attention to the format in front of no point, pay attention to the back of the three question marks and letter input method to switch to English
- 4, the corresponding instruction can be generated by the host computer

For example: /Advertisement / Xiaomi mobile phone.mp3, can be formatted as follows

/Advertisement\*/MiMi\*???, "Advertisement\*" represents the folder where the first two words are "Advertisement", \* is a wildcard,

"Millet \*???" represents the first two words of the document "millet" file, the latter three? The number indicates that the format is not limited, The chip supports both MP3 and WAV formats.

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

/ABCD\*/ASSD\*???

/test\*/ADSS\*???

Two-wire serial combo player



Combine play is combined by file name. The **file request is stored under the “ZH” folder** and the files to be combined can be combined. The name is changed to a two-byte name and it is generally recommended to use numbers. Such as: 01.mp3,02.mp3, you can also use two One letter or one character is named.

Chip communication uses full duplex serial communication;

Baud rate is 9600, data bits: 8, stop bit 1, check bit N

### 7.1 Communication Format

Start Code - Instruction Type - Data Length (n) - Data 1 - Data n- and Check (SM)

Script: Fixed to AA

Instruction Type: Used to distinguish instruction types

Data Length: The number of bytes of data in the instruction

Data: The relevant data in the instruction, when the data length is 1, it means only CMD, there is no data bit

And check: the lower 8 bits of the sum of all the previous bytes, ie, the lower 8 bits after the start code is added to the data

Data format: data or command sent, high 8 bits in front, low 8 bits in

### 7.2 Communication Mechanism

- 1, we as a slave processing, power-on default wait state, all playback operations are controlled by the host.
2. The slave will not initiate communication, all communication is initiated by the host.
- 3, the serial port is a 3.3V TTL level, if the host system is 5V level, in the middle of the string 1K resistance.
4. Unless otherwise specified, all data in the protocol represents hexadecimal data

### 7.3 Agreement

The following is the data definition returned and recognized by this chip.

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

Play status definition: System is powered off

00 (stop) 01 (play) 02 (pause)

Drive letter definition: Stopped after switching the drive letter

USB: 00 SD: 01 FLASH: 02 NO\_DEVICE: FF

Volume: The volume is a total of 31 levels, 0-30 levels, and the default is 20 levels for power-on

Play mode definition: Power on default is single stop

Full-cycle (00): Plays whole tracks in sequence, looping after playing

Single cycle (01): Plays the current track continuously

Single stop (02): Stops the current track once

Full random (03): Randomly play tracks within the drive letter

Directory loop (04): Plays the tracks in the current folder in order, loops after playing, and the directory does not contain subdirectories

Random directory (05): Random play within the current directory, directory does not contain subdirectories

Directory sequential play (06): play the tracks in the current folder in order, stop after playing, the directory does not contain subdirectories

Sequential playback (07): Play the entire track in order, stop after playing

EQ Definition: NORMAL(00) POP(01) ROCK(02) JAZZ(03) CLASSIC(04)

Power on default EQ is NORMAL(00)

DAC output channel definition: Power on defaults to MP3 playback channel (00)

MP3 Play Channel (00): Play MP3 channel, the sound output by DAC is music play sound

AUX channel (01): The sound output from the DAC is the input sound of P26 and P27

MP3+AUX(02): AUX channel MP3 is turned on at the same time, the sound output from the DAC is the music playback sound and P26, P27 input sound mixing output

Combined Play Definition: Combine playback is combined by file name. The file request is stored under the “ZH” folder.

Change the name of the file to be combined to a two-byte name, which is generally recommended to be represented by a number. Such as: 01.mp3, 02.mp3 can also be named with two letters or a Chinese character.

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

## 7.4 Communication Instructions

### Query play status (01)

Directive: AA 01 00 AB

Returns: AA 01 01 Play Status SM

Note: The current playback status can be queried at any time

### Play (02)

Instruction: AA 02 00 AC

Return: None

Description: Send this command at any time will start the current track from the beginning

### Suspension (03)

Instruction: AA 03 00 AD

Return: None

#### **Stop (04)**

Directive: AA 04 00 AE

Return: None

#### **Previous (05)**

Directive: AA 05 00 AF

Return: None

#### **Next song (06)**

Instruction: AA 06 00 B0

Return: None

#### **Designated tracks (07)**

Command: AA 07 02 Tracks High Track Low SM

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

#### **JQ8400-FL voice chip manual V1.5**

Return: None

For example: AA 07 02 00 08 BB specifies the 8th letter of the current drive, the number of tracks from 1-65535

#### **Specify the drive letter to specify the path to play (08)**

Command: AA 08 length letter path SM

Return: None

Description: length = drive length + path length = 1 + path length

For example: /Advertisement / Xiaomi mobile phone.mp3, can be formatted as follows

/Advertisement\*/MiMi\*???, "Advertisement\*" means that the first two words are "Advertisement Folders", and \* is a wildcard.

"Millet \*???" represents the first two words of the document "millet" file, the latter three? The number indicates that the format is not limited, The chip supports both MP3 and WAV formats. Use the upper computer to take the module data as follows:

The instructions generated by the upper computer are: 0xAA, 0x08, 0x10, 0x01, 0x2F, 0xB9, 0xE3, 0xB8, 0xE6, 0x2A, 0x2F 0xD0 0xA1 0xC3 0xD7 0x2A 0x3F 0x3F 0x3F 0x77

The specific format and method refer to the attached "JQ8400 Path Format Description.PDF"

#### **Query current online drive letter (09)**

Directive: AA 09 00 B3

Returns: AA 09 01 Drive letter SM

Note: The online drive letter is distinguished by bits: USB:BIT(0) SD:BIT(1) FLASH:BIT(2)

This function can know the current online drive letter. It is recommended to check the online drive letter before switching the drive letter.

#### **Query the current drive letter (0A)**

Instructions: AA 0A 00 B4

Returns: AA 0A 01 drive letter SM

#### **Switch to the specified drive letter (0B)**

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

Command: AA 0B 01 drive letter SM

Return: None

Description: Drive letter switching instruction. If the current drive letter is online, you can switch to the corresponding drive letter to wait for playing. After the first track, it is recommended to check whether the drive letter is online before switching.

E.g:

AA 0B 01 00 B6 Switch to U disk and stop after switching

AA 0B 01 01 B7 Switch to TF card, stop after switching

AA 0B 01 02 B8 Switch to FLASH card, stop after switching

#### **Query the total track (0C)**

Instruction: AA 0C 00 B6

Returns: AA 0C 02 total track high total track low SM

#### **Query the current track (0D)**

Instruction: AA 0D 00 B7

Returns: AA 0D 02 Tracks High Track Low SM

#### **Previous folder directory (0E)**

Directive: AA 0E 00 B8

return:

Description: The first song in the folder will be played after switching

#### **Next Folder Directory (0F)**

Command: AA 0F 00 B9

return:

Description: The first song in the folder will be played after switching

## **End play (10)**

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

### **JQ8400-FL voice chip manual V1.5**

Directive: AA 10 00 BA

Explanation: This instruction can end the current operation in advance and end the current playback. If it is in the insert, it will lead to early Beam insertion returns to its original state

## **Query the folder track (11)**

Directive: AA 11 00 BB

Returns: AA 11 02 Tracks High Track Low SM

Description: The serial number of the first song in the current directory

## **Query folder directory total track (12)**

Directive: AA 12 00 BB

Returns: AA 12 02 Tracks High Track Low SM

Description: This track does not include the number of files in the subdirectory

## **Volume setting (13):**

Command: AA 13 01 VOL SM

Return: None

For example: AA 13 01 14 D2 sets the volume to 20 levels

## **Volume plus (14):**

Directive: AA 14 00 BE

Return: None

## **Volume reduction (15):**

Directive: AA 15 00 BF

Return: None

## **Specify track insertion (16):**

Command: AA 16 03 Drive Track High Track Low SM

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

Return: None

For example: 9th in AA 16 03 00 00 09 CC Insert U disk

Description: Return to the insertion point to continue playing after the end of the insertion

**Specify path insertion (17):**

Command: AA 17 length letter path SM

Return: None

Description: length = drive length + path length = 1 + path length

The instructions sent are: 0xAA, 0x17, 0x10, 0x02, 0x2F, 0xB9, 0xE3, 0xB8, 0xE6, 0x2A, 0x2F, 0xD0, 0xA1, 0xC3, 0xD7, 0x2A, 0x3F, 0x3F, 0x3F, 0x87,

**End of insertion:**

Instruction: end playing instruction

Return: None

Note: In the process of inserting, you can end the in advance

**Set the loop mode (18):**

Instruction: AA 18 01 Loop Mode SM

Return: None

Example: Set to single stop: AA 18 01 03 C6

**Set the number of loops (19):**

Directive: AA 19 02 times high times low SM

Return: None

Note: This command is valid only when the playback mode is full-circle, single-loop, or directory-loop.

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

For example: AA 19 02 00 06 CB cycle 6 times

**EQ settings (1A)**

Directive: AA 1A 01 EQ SM

Return: None

For example: AA 1A 01 02 C7 Set EQ to ROCK

#### **Combined play (1B)**

Instruction: AA 1B Length Track 1 Name High byte, Track name 1 Low byte..... Track n Name High byte, Song

Item n Name Low byte SM

Return: None

For example: AA1B04303130328C, the file name is "01", "02" song combination play

Note: The file name combination is much more convenient, more accurate than the file serial number group, and is not limited by the copy order.

#### **End Combined Play (1C)**

Directive: AA 1C 00 C6

Return: None

Description: The knot speed combined play, return to the play status before combination

#### **Set the channel (1D)**

Command: AA 1D 01 Channel SM

Return: None

#### **Query song short file name (1E)**

Directive: AA 1E 00 C8

Returns: AA 1E Short Filename Length Short Filename SM

#### **Songs are not played (1F)**

Command: AA 1F 02 Tracks High Track Low SM

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

Return: None

#### **Repeat Control (20)**

Command: AA 20 04 Start minute Start second End minute End second SM

Return: None

#### **End Repeat (21)**

Directive: AA 21 00 CB

Return: None

**Specified time rewind (22)**

Command: AA 22 02 Time High 8 Bit Time Low 8 Bit SM

Return: None

Description: The unit is second

**Specify time to fast forward (23)**

Command: AA 23 02 Time High 8 Bit Time Low 8 Bit SM

Return: None

Description: The unit is second

**Get the total current track time (24)**

Instruction: AA 24 00 CE

Returns: AA 24 03 hours, minutes and seconds SM

**Open play time send (25)**

Instruction: AA 25 00 CF

Returns: AA 25 03 hours, minutes and seconds SM

Description: Opens the broadcast time and automatically returns when the time is updated.

**Turn off play time send (26)**

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

Instruction: AA 26 00 D0

Return: None

Description: Turn off the broadcast time to send

Special supporting upper computer, quick start, convenient debugging, automatic generation of instructions, as shown below:



**Eight, schematic example**

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)

**Need a big picture to ask the staff**

**Nine, chip package size chart**

Shenzhen Jiaqiang Electronic Technology Co., Ltd. Tel:0755-82595923 Technical support QQ: 184693906

Address: 19th Floor, Yuehu Building, Minzhi Avenue, Longhua, Shenzhen Website: [www.jq0755.com](http://www.jq0755.com)