Bluetooth moduleHY5066(BK3266)User Manual

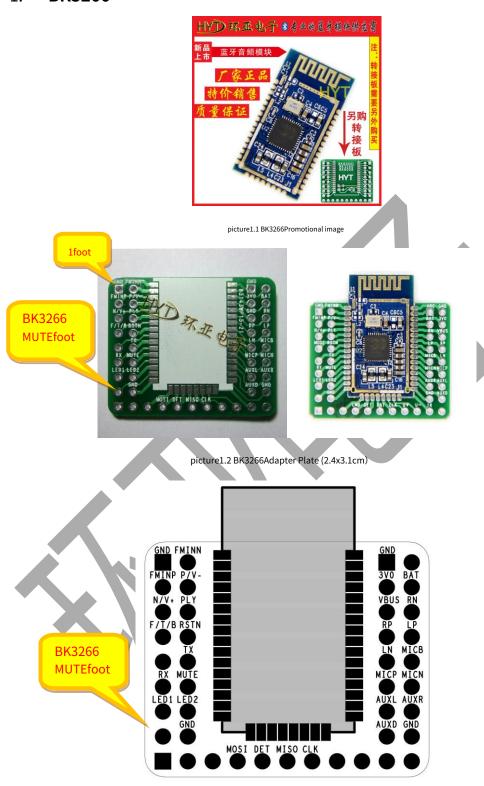


Huanya Electronics http://shop110280715.taobao.com

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1. **BK3266**



picture1.3 BK3266Pin Definition

1.1Module Introduction

This module adopts the main controlBeken(Broadcom)BK3266The chip provides the module with high-quality sound quality and compatibility, and the overall performance is superior. The Bluetooth module adopts a driver-free method. Customers only need to connect the module to the application product to quickly realize the wireless transmission of music and enjoy the fun of wireless music. It also supports buttons and ATSerial port command control. Support intelligent Chinese/English/neutral voice prompts; integratedSD/TFPlay, supportMP3/WMA/WAVMusic format: SupportUDisc playback, supportLINE-IN, supportSPP Data transmission, supportBLEData transmission (closed by default, ATcommand can be turned on). Can be stored6After the module is powered on, it will automatically connect to the last paired device.6If two paired devices are turned on at the same time, the last paired device will be automatically connected.

supportATModify the Bluetooth name.31characters, seeATInstruction description. SupportATModify the Bluetooth pairing password.15characters, seeATInstruction description. SupportSPP/BLEData transmission runs in the background in any mode and data transmission continues.

The number with "*" istwenty threeYear8moon31Features that will be supported later

23.8.31Update Notes:

 $1. PP/CALL: Double\ click\ to\ switch EQ,\ long\ press 8SC lear\ the\ pairing\ list\ without\ releasing\ it EQ recover normal$

2. MODE: Double-click the switch pairing password, long press 3SBe sure to release the switch prompt sound to the switch prompt

3.All serial port commands support no end character "/r/n" Send, and add serial port commands

1.2Application Areas

This module is mainly used for short-distance music transmission, and can be conveniently connected with laptops, mobile phones, PDAlt can be connected to Bluetooth devices of digital products to realize wireless transmission of music.

- 1)Stereo Bluetooth speakers;
- 2)Stereo Bluetooth headset;
- 3)Bluetooth calling;

4) Bluetooth control and multimedia devices

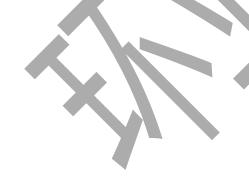


1.3Basic Features

- 1) Bluetooth v5.2 + EDR;
- 2) A2DP v1.2;
- 3) AVRCP v1.5;
- 4) HFP v1.7;
- 5) AVDTP v1.2;
- 6) AVCTP v1.4;

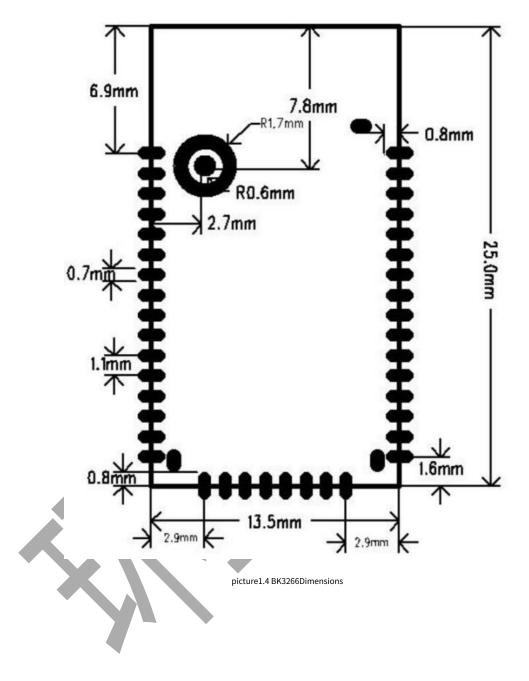
1.4Performance parameters

model	HY5066(BK3266)
Bluetooth Specifications	Bluetooth V5.2
Supply voltage	DC3.3-4.2V
Support Bluetooth protocol	HFPV1.7,A2DPV1.2,AVRCPv1.5,AVCTPV1.2,AVDTPV1.2
Working current	≤20mA
Standby current	<500uA
Temperature range	-40°C ~ +80°C
Wireless transmission range	>10rice
Transmission power	Class2,4dbm
Sensitivity	- 81dBm<0.1%BER
Frequency range	2.402GHz~2.480GHz
External interface	Serial Port (TTLlevel), and PCConnections require level conversion, such as CH340G, USB change TTL
Audio Performance	SBCdecoding
Audio signal-to-noise ratio	≥75dB
Module size	25x13.5x2mm
Adapter plate size	24x29mm

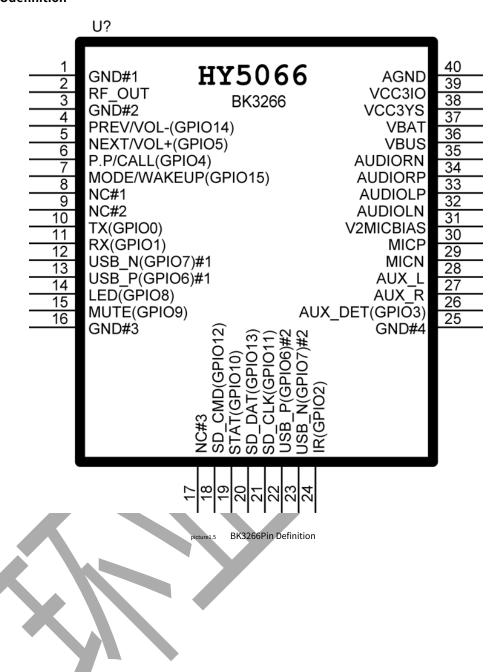


1.5 Module size

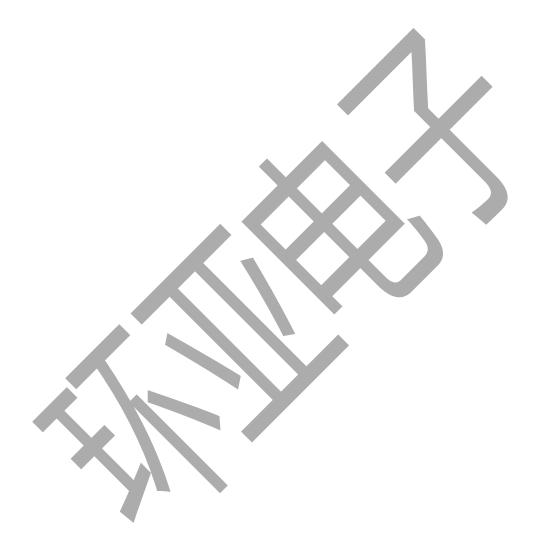
Pad size:1.6x0.8mm



1.6IOdefinition



IOserial number	IOname	IOdescribe
1	GND	Power Ground
2	RF	Not used
3	GND	Power Ground
4	PREV/VOL-(GPIO14)	Click to go to the previous song/long press to go to the volume down
5	NEXT/VOL+(GPIO5)	Click next song/long press volume up
6	PP/CALL(GPIO4)	Play/pause/answer/hang up/re-pair
		* Double click to switchEQ/Long press8SClear pairing list
		BT/TF/Uplate/AUXMode switching
7	MODE/WAKEUP(GPIO15)	(customizable as soft on/off)
		* Double-click to switch pairing password/long press3SreleaseSwitch tone
8	NC	Empty feet
9	NC	Empty feet
10	TX(GPIO0)	Serial PortTX (TTLLevel3.3V)
11	RX(GPIO1)	Serial PortRX(TTLLevel3.3V)
12	USB_DN (GPIO7)	USBjust
13	USB_DP(GPIO6)	USBburden
14	LED (GPIO8)	Status indicator
15	MUTE(GPIO9)	Control amplifier enable pin
		High sound output3.3V, no sound output low0V
16	GND	Power Ground
17	NC	Empty feet
18	SPI_CMD(GPIO12)	SD/TFofSPIinterface
19	STAT(GPIO10)	Bluetooth connection successfully outputs low level
20	SPI_SDO (GPIO13)	Bluetooth disconnects and outputs high level
	SPI_CLK(GPI011)	SD/TFofSPlinterface
twenty one	USB_DP(GPIO6)	SD/TFofSPIClock line simultaneousTFOpen insertion detection
twenty two	USB_DN (GPIO7)	USBjust
twenty four	IR(GPIO2)	USBburden
25	GND	Infrared remote control driveIO
		Power Ground
26	AUX_DET(GPIO3)	AUXInsertion detection (Default high level, low level is effective)
27	AUX_R	AUXRight channel input
28	AUX_L	AUXLeft channel input
29	MICN	MICInput negative terminal
30	MICIP	MICInput positive terminal
31	VMIC	MICBias voltage
32	AUDIOLN	Audio left channel differential output negative terminal
33	AUDIOLP	Audio left channel differential output positive terminal
34	AUDIORP	Audio right channel differential output positive terminal
35	AUDIORN	Audio right channel differential output negative terminal
36	VBUS	Not used
37	VBAT	Power Input (3.3V~4.2V)
38	VCC3YS	3VOutput,SD/TFpower supply
20	VDDSIO	3VOutput, power supply interface
39	VDD3IO	("MODE" No voltage output after key shutdown)
40	AGND	When single-ended audio output is used,
70	אטוזט	It must be connected to the ground of the power amplifier separately to remove noise.



1.7Precautions

- 1. During the module application process, please pay attention to avoid the influence of interference sources such as power amplifiers and boost circuits on the module, and avoid the module power supply circuit forming a series circuit with the high-power circuit unit, so as to improve the whole machine. SNR.
- 2.Regarding the use environment of wireless Bluetooth, wireless signals including Bluetooth applications are greatly affected by the surrounding environment. For example, obstacles such as trees and metals will absorb wireless signals to a certain extent, so in actual applications, the data transmission distance is affected to a certain extent.
- 3. Since the Bluetooth module must be matched with the existing system and placed in the casing, and the metal casing has a shielding effect on the wireless radio frequency signal, it is recommended not to install it in a metal casing.
- 4. PCBLayout: The antenna part of the Bluetooth module is PCBAntenna: As metal will weaken the function of the antenna, when laying out the module, it is strictly forbidden to lay the ground or run wires under the module antenna. It is better if it can be hollowed out.



1.8ATinstruction

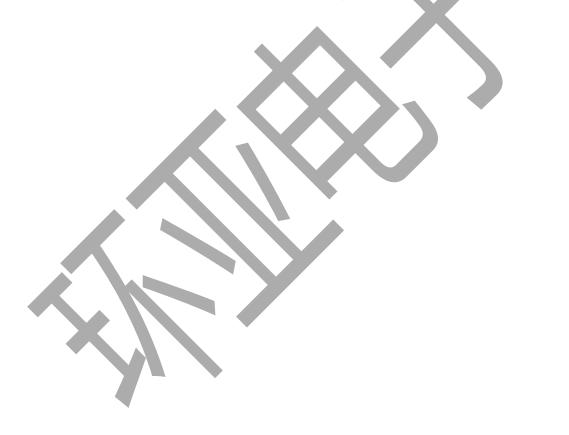
1.8.1 Serial port configuration

- 1.Baud rate9600;
- 2. 8bit data bit;
- 3.No parity bit;
- 4.One stop bit.

1.8.2Instruction Format

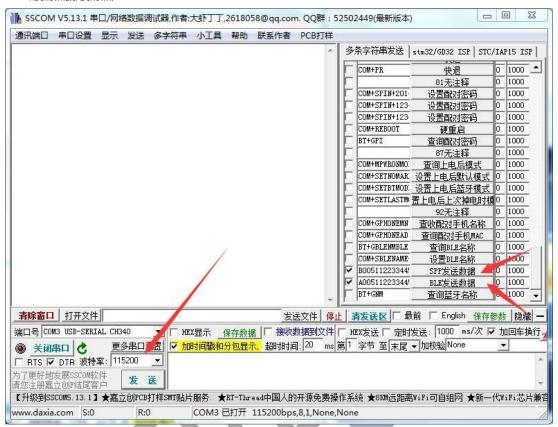
Control instruction format:COM+<CMD>[<param>] Data feedback format:IND>[<param>]\n Description: Control instructions are the control commands given by the host to Bluetooth.COM+" Start followed by <CMD>Control command, if the command has parameters, then continue to transmit after the command<param>parameter.

Data feedback is the Bluetooth feeding back various status and data information to the host.IND>It is a feedback instruction. If it needs to have parameters, it is followed by <IND>Continue to transfer afterparam>parameter.



1.8.3 Serial Port Demo

As shown1.6As shown:



picture1.6Serial port oper

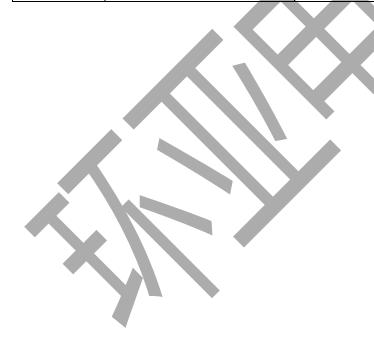
1.8.4Control instruction table

Serial port commands	Parameter Description	Instruction function description	Example
+ SNAME+	Example: COM+SNAME+BTBLUE BTBLUEThe modified name	Modify Bluetooth name	COM+SNAME+XXXX XXXX:most31Characters correct:OK\n mistake:ERR\n Effective immediately
+ SBLENAM E+	Example: COM+SBLENAME+BTBLE BTBLEThe modified name	ReviseBLE Bluetooth Name	COM+SBLENAME+XXX X XXXX:most15Characters correct:OK\n mistake:ERR\n Effective immediately
+ SPIN+	Example: COM+SPIN+12345678 12345678This is the modified password	Modify Bluetooth Pairing password	COM+SPIN+XXXX XXXX:maximum16Characters correct:OK\n mistake:ERR\n Effective immediately
TONExx	xx: "ON" Turn on the reminder sound xx: "OFFTurn off the reminder sound and support power-off saving The default prompt sound is on	Tone settings	COM+TONEON Turn on the reminder sound COM+TONEOFF Turn off the beep Effective immediately
MTONE		Query reminder tone settings	COM+MTONE Open:TOMEON\n closure:TOMEOFF\n
GOBACKxx	xx: "ON" Enable backlink xx: "OFFClose the connection Support power-off saving Power-on reconnection is enabled by default	Power-on reconnection settings	COM+GOBACKON Enable power-on reconnection COM+GOBACKOFF Disable power-on reconnect Effective immediately
MGOBACK		Query the connection settings	COM+MGOBACK Open:GOBACKON\n closure:GOBACKOFF\n
CALLxx	xx: "ON" Enable call function xx: " OFFDisable call function and save after power off The call function is enabled by default	Call function settings	COM+CALLON Enable call function COM+GOBACKOFF Turn off calling function Power off and restart to take effect
MCALL		Query call settings	COM+MCALL Open:CALLON\n closure:CALLOFF\n
MP3AUTOP LYxx	Uplate/TFMode: xx: "ON" Turn on Autoplay xx: "OFFTurn off automatic playback and support power-off saving Autoplay is enabled by default	Autoplay settings	COM+MP3AUTOPLYON Turn on Autoplay COM+MP3AUTOPLYOFF Turn off Autoplay Effective immediately
MP3AUTOP LY		Query Automatic Playback Settings	COM+MP3AUTOPLY Open:MP3AUTOPLYON\n closure: MP3AUTOPLYOFF\n

MEQ		QueryEQ	NORMAL\n BOOST\n TREBLE\n POP\n ROCK\n CLASSIC\n JAZZ\n DANCE\n R&P\n
SETEQxx	xx:NORMAL BOOST TREBLE POP ROCK CLASSIC JAZZ DANCE R&P Support power-off saving default"NORMAL"	EQset up	COM+SETEQNORMAL correct:OK\n mistake:ERR\n
ОТ	Example: 0015: Total15Songs 0001: Currently playing1Songs 0328: Playing time3point28Second	Start Printing Song information	COM+GN correct: MUSIC:001500010328\n mistake:ERR\n
СТ	Printing song information is disabled by default	Turn off printing Song information	COM+CT correct:OK\n mistake:ERR\n
GN	xxxxxxxx: Song title, maximum8 characters, exceeding8characters, Use "~1" replace	Get Current Song name	COM+GN correct:xxxxxxxxx\n mistake:ERR\n
PR		Enter pairing	BT+PR
AC		Connect the last paired device	BT+AC
DC		Disconnect	BT+DC
CA		Answering a call	BT+CA
C)		Reject a call	BT+CJ
CE		Hang up the phone	BT+CE
CR		Last number redial	BT+CR
PP		Music Play/Pause	COM+PP
PA		Music playback	COM+PA
PU		Music Pause	COM+PU
PN		Next song	COM+PN
PV		Previous song	COM+PV
VP		Volume up	COM+VP
VD	(22.22)	Volume Down	COM+VD
CETTO	xx:(00-16)		COM+SETTSxx
SETTSxx	Serial port settings	Set the volume of the reminder tone	correct:OK\n mistake:ERR\n
	Support power-off saving		COM+MTS
MTS	x:(0-16)		COM+MTS correct:TSx\n
IVIIJ	V•(0-T0)	Query the volume of the reminder tone	mistake:ERR\n
i l			

	Button, serial port settings		correct:COM_Vxx\n
	Support power-off saving		mistake:ERR\n
		Ouen, when A2DD cound	COM+GV
GV	xx:(00-16)	Query whenA2DPsound	correct:COM_Vxx\n
		quantity	mistake:ERR\n
PWDS		Soft shutdown	COM+PWDS
PWOS		Soft boot	COM+PWOS
REBOOT	This restart is equivalent to a power-off restart	Restart	COM+REBOOT
MC		Switch to next job	COM+MC
		model	
MBT		Bluetooth Mode	COM+MBT
MSD		TFmodel	COM+MSD
		(if valid)	
MAX		AUXmodel	COM+MAX
		(if valid)	
MUD		UDisk Mode	COM+MUD
		(if valid)	
IQ		Query the current mode and	COM+IQ
14		state	
		Loop all	COM+SMA
SMA	Default playback modeSMA	(TF/UDisk mold)	correct:COM_SMA\n
		(11) ODISK Moto)	mistake:ERR\n
6146		Single song loop play	COM+SMO
SMO		(TF/UDisk mold)	correct:COM_SMO\n
			mistake:ERR\n
CMNO		Single song does not loop	COM+SMNO
SMNO		(TF/UDisk mold)	correct:COM_SMNO\n
		V	mistake:ERR\n COM+SMR
SMR		Shuffle	correct:COM_SMR\n
SWIK		(TF/UDisk mold)	mistake:ERR\n
			COM+GSM
			Full loop:COM_SMA\n
		Query currentMP3 Play Mode	Single loop:COM_SMO\n
GSM			Single song does not loop:
		(TF/UDisk mold)	COM_SMNO\n
			Shuffle:COM_SMR\n
CMDyggg	xxxx:(0001-9999) ("	Select song to play	COM+SMP0040
SMPxxxx	0001" Representative1head)	(TF/UDisk mold)	COM+SMP0040
		Query the currently playing	COM+MRMP3
MRMP3	x:(1-9999)	MP3Song number	correct:music_mun=x\n
		(TFMode)	mistake:ERR\n
		Query the current mode	COM+MMMP3
MMMP3	w/1 0000)	MP3Number of songs	correct:MMMPx\n
INIMIMIA	x:(1-9999)	(TF/UDisk Mode	mistake:ERR\n
		Down)	IIIIStake.ERR\II
		Query the currently playing	COM+MRUSB
MRUSB	x:(1-9999)	UDisc song number	correct:music_mun=x\n
		(UDisk mode)	mistake:ERR\n
CETYMAN	SETNOMALMODE: Set up	Set the default after power on	COM+SETNOMALMODE
SETxxxx	Default mode after power on	model	COM+SETBTMODE
	· · · · · · · · · · · · · · · · · · ·		l

	SETBTMODE: Set after power on		COM+SETLASTMODE
	Bluetooth Mode		
	SETLASTMODE: Set power on		
	Mode after last power failure		
	To set the baud rate:		COM+BR9600
BR	BR9600/BR115200	Setting the baud rate	COM+BR115200
	default9600		Restart after setting to take effect
	The following are 23.8.31	Added instructions later	
MPINST		Query password status	COM+MPINST
PINON	Effective immediately	Pairing code on	COM+PINON
PINOFF	Effective immediately	Pairing Password Off	COM+PINOFF
MDACST		QueryDACstate	COM+MDACST
DACDIFFER	REBOOTRestart to take effect	DACDifferential output	COM+DACDIFFER
DACSINGL E	REBOOTRestart to take effect	DACSingle-ended output	COM+DACSINGLE
MCHANST		Query channel status	COM+MCHANST
STEREO	REBOOTRestart to take effect	Stereo Output	COM+STERRO
MONO	REBOOTRestart to take effect	Mono output	COM+MONO
MMICST		QueryMICstate	COM+MMICST
MICDIFFER	REBOOTRestart to take effect	MICDifferential output	COM+MICDIFFER
MICSINGLE	REBOOTRestart to take effect	MICSingle-ended output	COM+MICSINGLE



1.8.5 Query/Feedback Instructions

GAD GAD GAP Superparamental States of States	Serial port commands	describe	Example	Bluetooth return information
Site GNM Complication theretoes GPI Code GPI Code GBLEMBLE Queyellatemic parameted Say GPHONEAD GPHONEAD GOVERNMENT AND SAY GPHONEAD GPHON	•		·	
GNM GPI GPI GOUGE GPI GPI GOUTE STATE OF THE VISION PROCESSOR AND	5,15		51.0/10	5_1515151515 (11
GPI Concept Statement Processing Statement Sta	GNM		BT+GNM	NA HV5066\n
GPI Code GBLEMBLE QueryBlename Say GPHONEAD GUING SAY GPHONEAD GUING SAY GPHONEAD GUING SAY GERMAN MODE MPWRONMODE MPWRON	OIVIVI	, ,	DI GIVINI	NA_1113000(II
GBLEMBLE Query BLENAM BT+GBLENMBLE BLENA_HY5066BLE\n GPHONEAD Correspondent formation and site site states of the property of	CDI		BT+CDI	DN 1224\n
GBLEMBLE GBLEMBLE Query BLETNAM GPHONEAD Guery George on Both professionation Site MPWRONMODE Mode COM+GPHONEAD COM+GPHONEAD PHONEAD:19191919191919191919191919191919191919	GFI	l .	DITUFI	PN_1234\II
GPHONEAD GOVERNMENT AND A COMPANDE COMPANDED The Indicatable the status of filtrateath activaly sanding out Gescribe Gescr	CDLEMBLE		DT CD FNIMDI F	DIENA LIVEOCCOLE\ >
GPHONEAD Site MPWRONMODE Oursy the preserve market Mode The following is the seaso of Bluetooth actively wording out The following is the seaso of Bluetooth actively wording out The following is the seaso of Bluetooth actively wording out The following is the seaso of Bluetooth actively wording out The following is the seaso of Bluetooth actively wording out The following is the seaso of Bluetooth actively wording out The following is the seaso of Bluetooth actively wording out The current mode is Bluetooth. BT_PA The current mode is Bluetooth. PHONEAD: 191919191919191919191910 NOMALMODE: BILMODE: NOMALMODE: NOMALMODE: BILMODE: NOMALMODE: BILMODE: NOMALMODE: NOMALMODE: BILMODE: NOMALMODE: NOMALMODE: BILMODE: NOMAL	GBLEMBLE	_	B1+GBLENMBLE	BLENA_H12000BLE/U
MPWRONMODE Site	COLLONIEAD	say	COMPONICAD	
MPWRONMODE Mode	GPHONEAD		COM+GPHONEAD	PHONEAD:191919191919\n
Mode The following is the utatus of flustrooth activally useding out Sental port communities EER mistake describe describe EER mistake EER\n OK consultation of finish Don't finish COM_SMA Loop all (TF/UDIsk mode) COM_SMAO Single song loop play (TF/UDIsk mode) COM_SMNO Single song does not loop (TF/UDIsk mode) COM_SMNO Single song does not loop (TF/UDIsk mode) COM_SMR Shuffle (TF/UDIsk mode) COM_SMR\n COM_VXX Current volumexclass MP3 Each switchMP3Song, alternatically returns the song number music_mun=1\n USB Each switchMP3Song, alternatically returns the song number music_mun=1\n IRX (TF/UDIsk mode) (TF/UDIsk mode) IRX\n XRepresents the volume and the control of the current mode is Bluetooth of SY_PO\n BT_AC The current mode is Bluetooth. BT_WP The current mode is Bluetooth. BT_CN BT_PA The current mode is Bluetooth. Playing BT_IC The current mode is Bluetooth. PLACIN BT_PA\n BT_OC\n BT_OC\n		site		
The Collaborite is the status of Bluestooth setroly sending out Secreta port commanded. Describe Bluestooth return information	MPWRONMODE		COM+MPWRONMODE	
The following is the status of Bluetcoth actively sending out Commands		Mode		
Serial point commands Billustroth return information				LASTMODE\n
EER mistake EER\n OK control command recognition Don't finish COM_SMA Loop all (TF/UDisk mode) COM_SMO\n COM_SMO Single song loop play (TF/UDisk mode) COM_SMO\n COM_SMNO Single song does not loop (TF/UDisk mode) COM_SMNO\n COM_SMR Shuffle (TF/UDisk mode) COM_SMR\n COM_VXX\n COM_VXX\n COM_VXX\n COM_VXX\n Subspiresents the volume level MP3 Each switch MP3 cong, alto matically returns the song number music_mun=1\n USB Each switch MP3 cong, and authomatically return to the doff aut setting. IRX MUSICPLYFINISH TF/UDisk mode) IRX\n SY_PO Bluetooth on SY_PO\n SY_PF Bluetooth off SY_PF\n BT_AC The current mode is Bluetooth. In pairing state BT_WP The current mode is Bluetooth. Waiting for connection BT_CN BT_CN The current mode is Bluetooth. Playing BT_LC\n The current mode is Bluetooth. Playing			<u> </u>	
OK Comedian designation point finish COM_SMA Loop all (TF/UDisk mode) COM_SMO() Single song loop play (TF/UDisk mode) COM_SMO() COM_SMNO() Single song does not loop (TF/UDisk mode) COM_SMN() COM_SMR() COM_SMR() COM_SMR() COM_SMR() COM_VXX() COM_VXX(·	describe	describe	
COM_SMA		mistake		
COM_SMA COM_SMO Single song loop play (TF/UDisk mode) COM_SMNO Single song does not loop (TF/UDisk mode) COM_SMNO COM_SMR Shuffle (TF/UDisk mode) COM_SMR\n COM_SMr COM_SMR\n COM_SMR\n COM_SMR\n COM_SMR\n COM_SMR\n COM_STR\n CO	UK	Control command recognition		UK\n
COM_SMO COM_SMNO Single song loop play (TF/UDisk mode) COM_SMNO Single song does not loop (TF/UDisk mode) COM_SMR Shuffle (TF/UDisk mode) COM_SMR\n COM_VXX Current volumexxclass MP3 Each switchMP3Song, automatically returns the song number USB Each switchDP3song, automatically return to the song number IRX (TF/UDisk mode) IRX\n xRepresents the volume level MP3 Each switchDP3song, automatically return to the song number (TF/UDisk mode) IRX\n xRepresents numeric keys XRepresents numeric				
COM_SMNO COM_SMR Shuffle (TF/UDisk mode) COM_SMR\n COM_Vxx Current volumexxclass MP3 Each switchUPlay songs and automatically returns the song number USB Each switchUPlay songs and automatically return to the song number IRX TF/UDisk mode) IRX\n xRepresents the volume level MUSICPLYFINISH TF/UDisk mode) IRX\n xRepresents numeric keys Key value (TF/UDisk mode) IRX\n xRepresents numeric keys Key value TF/UDisk mode) IRX\n xRepresents numeric keys MUSICPLYFINISH SY_PO Bluetooth on SY_PO\n SY_PF\n BT_AC The current mode is Bluetooth. In the return BT_WP The current mode is Bluetooth. Waiting for connection BT_WC The current mode is Bluetooth. Waiting for connection BT_CN The current mode is Bluetooth. BT_CN\n The current mode is Bluetooth. Playing BT_IC The current mode is Bluetooth. Playing The current mode is Bluetooth. Playing The current mode is Bluetooth. BT_IC\n		Loop all (T	F/UDisk mode)	
COM_SMR COM_VXX Current volumexxclass COM_VXX\n xolkepresents the volume level MP3 Each switchMP3Song, abutomatically returns the song number USB Each switchUplay songs and automatically returns to the song number (TF/UDisk mode) Each time you press the uniform denote scened, it will automatically return to the deal aut setting. RNX\n xRepresents numeric keys KRy RDY_PO Bluetooth on SY_PO\n SY_PF Bluetooth off SY_PF\n BT_AC The current mode is Bluetooth. In pairing state BT_WC BT_WC The current mode is Bluetooth. Waiting for connection BT_WC The current mode is Bluetooth. Playing BT_CN The current mode is Bluetooth. Playing BT_IC The current mode is Bluetooth. BT_PA\n BT_IC\n The current mode is Bluetooth. BT_IC\n	COM_SMO	Single song lo	oop play (TF/UDisk mode)	COM_SMO\n
COM_VXX Current volumexxclass COM_VXx\n xoRepresents the volume level MP3	COM_SMNO	Single song doe	s not loop (TF/UDisk mode)	COM_SMNO\n
MP3 Each switchMP3Song, automatically returns the song number MP3 Each switchMP3Song, automatically return to the song number MUSICPLYFINISH (TF/UDisk mode) Each time you press a number levy on the infrared remote control, it will automatically return to the default setting. New value (TF/UIn disc mode) after playing a song, MUSICPLYFINISH (TF/UIn disc mode) after playing a song, MUSICPLYFINISH SY_PO Bluetooth on SY_PO\n SY_PF Bluetooth off SY_PF\n BT_AC The current mode is Bluetooth. In pairing state BT_WP The current mode is Bluetooth. Waiting for connection BT_CN The current mode is Bluetooth. BT_CN\n BT_PA\n BT_PA\n BT_PA\n BT_PA\n BT_IC The current mode is Bluetooth. BT_IC\n The current mode is Bluetooth. BT_IC\n BT_OC\n BT_OC\n BT_OC\n	COM_SMR	Shuffle (TF/UDisk mode)	COM_SMR\n
MP3 Each switchMP3Song, alutomatically returns the song number MP3 Each switchMP3Song, alutomatically return to the song number Music_mun=1\n (TF/UDisk mode) Each time you press number below on the infrared omete control, it will automatically return to the dark lat setting. MUSICPLYFINISH (TF/UIn disc mode) affer playing a song, MUSICPLYFINISH\n SY_PO Bluetooth on SY_PF\n BT_AC The current mode is Bluetooth. In the return BT_WP BT_WC The current mode is Bluetooth. BT_WP\n BT_CN BT_CN The current mode is Bluetooth. BT_WC BT_PA The current mode is Bluetooth. Connect BT_PA The current mode is Bluetooth. BT_PA\n BT_PA\n BT_PA\n BT_CN\n BT_CN\n BT_CN The current mode is Bluetooth. BT_PA\n BT_IC The current mode is Bluetooth. BT_CN\n	COM Vyy			COM_Vxx\n
USB Each switch Delay songs and automatically return to the song number (TF/UDISK mode) IRX\n IRX\n Key-value IRX\n Key-value (TF/UIn disc mode) after playing a song, MUSICPLYFINISH\n SY_PO Bluetooth on SY_PF\n BT_AC The current mode is Bluetooth. In pairing state BT_WC BT_CN BT_CN BT_CN BT_PA The current mode is Bluetooth. BT_PA\n BT_PA\n BT_IC The current mode is Bluetooth. BT_IC\n The current mode is Bluetooth. BT_IC\n The current mode is Bluetooth. BT_OC\n BT_OC\n BT_OC\n The current mode is Bluetooth. BT_IC\n BT_OC\n BT_OC\n BT_OC\n BT_OC\n BT_OC\n BT_OC\n BT_OC\n BT_OC\n BT_OC\n	COM_VXX	Cui	rrent volumexxclass	xxRepresents the volume level
IRX (TF/UDisk mode) Each time you press a number key on the infrared remote control, it will automatically return to the def will setting. MUSICPLYFINISH (TF/UIn disc mode) after playing a song, MUSICPLYFINISH\n SY_PO Bluetooth on SY_PO\n SY_PF\n BT_AC The current mode is Bluetooth. In the return BT_WP The current mode is Bluetooth. BT_WP\n BT_WC The current mode is Bluetooth. Waiting for connection BT_CN BT_PA The current mode is Bluetooth. Connect The current mode is Bluetooth. BT_CN\n BT_PA BT_PA The current mode is Bluetooth. Playing BT_IC The current mode is Bluetooth. BT_IC\n BT_IC\n BT_IC\n BT_OC\n BT_OC\n BT_OC\n	MP3	Each switchMP3Song, a	utomatically returns the song number	music_mun=1\n
IRX Each time you press a number key on the infrared remote control, it will automatically return to the default setting. MUSICPLYFINISH MUSICPLYFINISH	USB	Each switchUPlay songs a	and automatically return to the song number	music_mun=1\n
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MUSICPLYFINISH (TF/UIn disc mode) after playing a song, MUSICPLYFINISH\n SY_PO Bluetooth on SY_PO\n SY_PF Bluetooth off SY_PF\n BT_AC The current mode is Bluetooth. In the return BT_WP The current mode is Bluetooth. BT_WP\n BT_WC The current mode is Bluetooth. Waiting for connection BT_CN BT_CN The current mode is Bluetooth. Connect BT_CN\n BT_PA The current mode is Bluetooth. Playing BT_IC The current mode is Bluetooth. BT_IC\n BT_IC\n BT_OC\n	IRx	Each time you press a number key o	n the infrared remote control, it will automatically return to the d	
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MOSICPLYFINISH SY_PO Bluetooth on SY_PF\n BULETOOTH Growing spit out SY_PO\n SY_PF\n Bluetooth off SY_PF\n BT_AC The current mode is Bluetooth. In pairing state BT_WC BT_WC The current mode is Bluetooth. Waiting for connection BT_CN BT_CN The current mode is Bluetooth. Connect BT_CN\n BT_PA The current mode is Bluetooth. BT_PA\n BT_IC The current mode is Bluetooth. Playing BT_IC The current mode is Bluetooth. BT_IC\n BT_IC\n BT_IC\n BT_OC\n BT_OC\n		(TF/UIn disc mode) after playing a song,		
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BT_CN BT_CN The current mode is Bluetooth. connect The current mode is Bluetooth. Playing BT_PA BT_PA\n BT_PA\n BT_IC The current mode is Bluetooth. BT_IC The current mode is Bluetooth. BT_IC BT_IC BT_OC The current mode is Bluetooth. BT_OC\n				
BT_CN BT_CN The current mode is Bluetooth. connect The current mode is Bluetooth. Playing BT_PA BT_PA\n BT_PA\n BT_IC The current mode is Bluetooth. BT_IC The current mode is Bluetooth. BT_IC\n BT_IC\n BT_OC\n	BT_WC			BT_WC\n
BT_CN BT_CN BT_CN\n BT_PA The current mode is Bluetooth. Playing BT_PA\n BT_IC BT_IC\n BT_IC BT_IC\n BT_OC\n			-	
BT_PA The current mode is Bluetooth. Playing BT_IC The current mode is Bluetooth. BT_IC The current mode is Bluetooth. BT_IC\n BT_OC\n	BT CN		The current mode is Bluetooth.	BT CN\n
BI_PA Playing BT_IC The current mode is Bluetooth. Incoming calls BT_IC\n BT_OC BT_OC\n	= -		connect	'
BT_IC BT_OC The current mode is Bluetooth. BT_IC\n BT_IC\n BT_IC\n BT_OC\n	BT PA			BT PA\n
BI_IC BI_IC\n BT_OC The current mode is Bluetooth. BT_OC\n	51_17		Playing	51_17\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
BT_OC The current mode is Bluetooth. BT_OC\n	BT IC		The current mode is Bluetooth.	BT IC\n
BI_OC BT_OC\n	DI_IC		Incoming calls	B1_IC/II
Outgoing call	RT OC		The current mode is Bluetooth.	PT OC\n
	DI_UC		Outgoing call	P1_OC/II

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BT_EC	The current mode is Bluetooth. On a call	BT_EC\n			
SD_PA	CurrentlySDCard mode,SD Card is playing status	SD_PA\n			
SD_PU	CurrentlySDCard mode,SD Card is suspended	SD_PU\n			
UD_PA	CurrentlyUDisk mode,UPanzheng In playback state	UD_PA\n			
UD_PU	CurrentlyUDisk mode,UDisk In suspended state	UD_PU\n			
AX_PA	CurrentlyAUXmodel,AUX Playing status	AX_PA\n			
AX_PU	CurrentlyAUXmodel,AUX Paused	AX_PU\n			



$1.8.6 {\tt SPP\&BLED} igital\ Transmission\ Introduction$

And roid SPPG ood data transmission compatibility, iOSOnly compatible BLED igital Transmission						
SPPData Format	describe Example		Bluetooth return information			
B005XXXXXXX	Hex Send					
Both the module and the mobile phone must	Module and mobile phone formats	B005393837363534	none			
Must haveB005head	Same, both16Base					
BLEData Format	describe	Example	Bluetooth return information			
A005XXXXXXX	Hex Send					
Both the module and the mobile phone must	Module and mobile phone formats	A005313233343536	none			
Must haveA005head	Same, both16Base					
BLEOpen and close	closure:BLEOFF	COM+BLEOFF	BLEOFF\n			
Default off	Open:BLEON	COM+BLEON	BLEON\n			
BLEStatus Query	MBLE	COM+MBLE	BLEOFF\n			
BLEStatus Query	IVIDEE	CONTINIBLE	_ BLEON\n			



1.8.7 Serial Port Demo

 $When the serial port connection is successful, the module will return "SY_PO\n", after the Bluetooth connection is successful, it returns "BT_CN\n", as shown in the serial port connection is successful, and the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful. The serial port connection is successful, as shown in the serial port connection is successful. The serial port connection is successful, as shown in the serial port connection is shown in the serial port connection in the serial port connection is successful. The serial port connection is successful, as shown in the serial port connection is successful. The serial port connection is successful, as shown in the serial port connection is successful. The serial port connection is successful, as shown in the serial port connection is successful. The serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful. The serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful, as shown in the serial port connection is successful. The serial port connection is successful to the serial port connection in the serial port connection is successful. The serial port conn$

in the figure 1.6As shown:



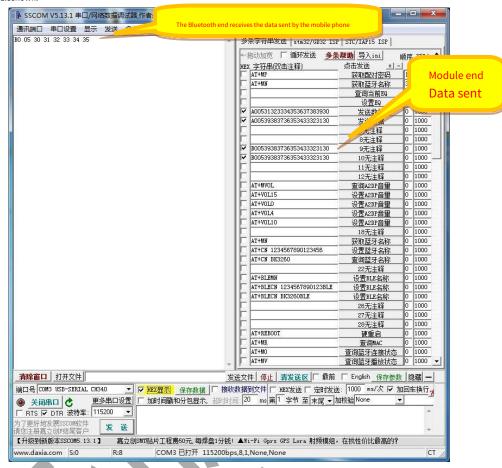
picture1.7Serial port open

SPPData transmission, install the software on your Android phone, run the software, click Connect, and a connection will appearHY5066DM(bringKEY is a



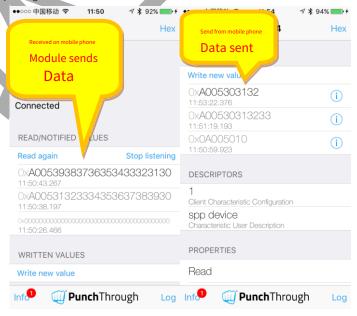
picture1.8cell phoneAPP

existSSCOMSend according to the instruction formatSPPData, as shown in the figure 1.9As shown. On mobile phoneAPPThe corresponding data is received in 1.5shown.



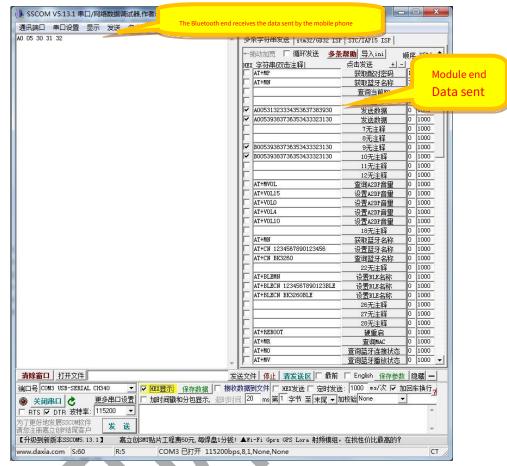
picture1.9Serial PortSPPSending and receiving data

BLEData transmission, iPhoneAPP (lightblue) is sent according to the instruction formatBLEData, as shown in the figure 1.10As shown. SSCOMThe corresponding data is received in 1.8shown.



picture1.10cell phoneAPPSending and receiving data

existSSCOMSend according to the instruction formatBLEData, as shown in the figure 1.8As shown. On mobile phoneAPPThe corresponding data is received in 1.7shown.



picture1.11Serial PortSPPSending and receiving data