

			Work	Mod	e Con	figura	tion					
Cantual Maria	Confi	gurati	on Pin		I/O Function							
Control Mode	CON3	CON2	CON1	IO7	IO6	IO5	IO4	IO3	IO2	IO1	IO0	
I/O Integrated Mode 0	0	0	0	Key combination play, can play 2^8-1(255) Songs.					ngs.			
I/O Integrated Mode 1	0	0	1	Level combination play, can play 2^8-1(255) Songs.					ngs.			
I/O Independent Mode 0	0	1	0	Song8	Song7	Song6	Song5	Song4	Song3	Song2	Song1	
I/O Independent Mode 1	0	1	1	Song8	Song7	Song6	Song5	Song4	Song3	Song2	Song1	
UART Mode	1	0	0							RXD	TXD	
One-Line Mode	1	0	0				TXD					
Standard MP3 Mode	1	0	1				RPT	EQ	P/P/MODE	PREV/V-	NEXT/V-	
Note:		20			12 2			20 10		7	10	

Note:

2.1

1>. "key combination play" : Return to the original high level after the corresponding level from I/O0-I/O7 output, similar to the key triggered once.Similar instantaneous switch.

2>. "Level combination play" :The trigger signal remains the same, similar to a self-locking switch.

3>.The difference between "I/O Integrated/Independent Mode 0" and "I/O Integrated/Independent Mode 1" :Mode 0 will continue playing the current song to the end after release level .Mode 1 will stop playing immediately after release level.

I/O Integrated Mode 0 (Key combination playing).

No	te: the	song	must k	pe nam	ned for	5bit.			
IO7	IO6	IO5	IO4	IO3	IO2	IO1	IO0	Song	
1	1	1	1	1	1	1	0	00001.mp3	It will stop playing current song to the
1	1	1	1	1	1	0	1	00002.mp3	end after I/O0-7 release input signal (return to high) at 'I/O Integrated Mode
1	1	1	1	1	1	0	0	00003.mp3	0'. It will playing new song when get new
1	1	1	1	1	0	1	1	00004.mp3	input signal during playing and stop after
1	1	1	1	1	0	1	0	00005.mp3	end of song. It will play repeatedly if keep
1	1	1	1	1	0	0	1	00006.mp3	input. Busy pin will output valid
1	1	1	1	1	0	0	0	00007.mp3	signal(High) during playing.Music control as following:
									as ronowing.
0	0	0	0	0	0	0	0	00255.mp3	1

	I/O Integrated Mode 1 (Level combination playing)								
IO7	IO6	IO5	IO4	IO3	IO2	IO1	IO0	Song	
1	1	1	1	1	1	1	0	00001.mp3	
1	1	1	1	1	1	0	1	00002.mp3	It will keep playing current song when get
1	1	1	1	1	1	0	0	00003.mp3	trigger signal.It will stop playing
1	1	1	1	1	0	1	1	00004.mp3	immediately after release level.Busy pin
1	1	1	1	1	0	1	0	00005.mp3	will output valid signal(High) during
1	1	1	1	1	0	0	1	00006.mp3	playing.
1	1	1	1	1	0	0	0	00007.mp3	
0	0	0	0	0	0	0	0	00255.mp3	
			I/O	Inde	pende	ent Me	ode 0	(Key indepe	endent controlling)
IO7	IO6	IO5	IO4	IO3	IO2	IO1	IO0	Song	1/00 1/07 is done a doubly control a
1	1	1	1	1	1	1	0	00001.mp3	I/O0-I/O7 independently controls 8 songs.It will stop playing current song to
1	1	1	1	1	1	0	1	00002.mp3	the end after I/O0-7 release input
1	1	1	1	1	0	1	1	00003.mp3	signal(return to high);It will playing new
1	1	1	1	0	1	1	1	00004.mp3	song when get new input signal during
1	1	1	0	1	1	1	1	00005.mp3	playing and stop after end of song;It will
1	1	0	1	1	1	1	1	00006.mp3	play repeatedly if keep input;Busy pin will
1	0	1	1	1	1	1	1	00007.mp3	output valid signal(High) during playing.
0	1	1	1	1	1	1	1	00008.mp3	
			I/O	Indep	ende	nt Mo	ode 1	(Level indep	endent controlling)
IO7	IO6	IO5	IO4	IO3	IO2	IO1	IO0	Song	
1	1	1	1	1	1	1	0	00001.mp3	
1	1	1	1	1	1	0	1	00002.mp3	I/O0-I/O7 independently controls 8
1	1	1	1	1	0	1	1	00003.mp3	songs.It will keep play repeatedly specify
1	1	1	1	0	1	1	1	00004.mp3	the triggered song.It will stop playing immediately after release level.Busy pin
1	1	1	0	1	1	1	1	00005.mp3	will output valid signal(High) during
1	1	0	1	1	1	1	1	00006.mp3	playing.
1	0	1	1	1	1	1	1	00007.mp3	
0	1	1	1	1	1	1	1	00008.mp3	

	UART Mode									
	Communication Format									
Adopt full du	Adopt full duplex serial port communication. Baud rate 9600, data bits 8, stop bit 1, check bit N.									
	Start Code Command Type Data Length (n) Data 1 Data n Check Bit (SM)									
	Command Type Data Length (n) Data I Data n Check Bit (SIVI)									
	societies and measured			آم مر م						
Command Type: u			• • • • • • • • • • • • • • • • • • •		0				6	
Data Length: the	· · · · · · · · · · · · · · · · · · ·					•1 5			5 1 5	
Data: Relevant da			-				-			
Check Bit: Low 8 k	and a second	•						e out	low 8 bits.	
Data format: Sent	data or comma			202 20200 3020		it is in	the back.			
		*	Communicat	120 6 201 20						
The following is a	Paral Carrier Management for a menter of mission in paral sections	Construction and a second second second					5			
A. Playing State d	efinition: the sy	stem is o	on the stop s	state v	vhen power	on.				
00(stop) 01(pl	ay)	02(paus	e)						
B. Disk character of	definition: it is s	topped a	after the swi	tch di	sk.		e			
USB:00	USB:00 SD:01 FLASH:02 NO_DEVICE: FF									
C. Volume: the vo	C. Volume: the volume is 31grades, 0-30.The default is 20grade.									
D. Play mode: the	default is the s	ingle sto	p when pow	/er on						
Cycle for all song	s (00) : play the	whole s	ongs in sequ	lence	and play it a	after th	ne play.			
Single cycle (01) :	play the currer	nt song a	Il the time.							
Single stop (02) :	Only play curre	nt song	once and the	en sto	p.					
Random play (03					• #25					
			in order, the	en pla	y by play.Dir	ectory	don't conta	in suk	odirectory.	
	Directory loop (04) :Play in current folder in order, then play by play.Directory don't contain subdirectory. Directory random (05): random play in the current folder, and directory does not contain subdirectory.									
Directory order play(06):Play current folder in order & stop after play.Directory not include subdirectory.										
Sequential play (07) : play the whole songs in order and stop after it is played.										
E. EQ definition: the default EQ is NORMAL(00).										
NORMAL(00) POP(01) ROCK(02) JAZZ(03) CLASSIC(04)										
F. Composition play definition: combination play is combined by filename. The file requirements are stored under the "XY" file. You can change the name of the file you want to combine to two bytes, which										
is generally recommended as a number. Such as: 01. Mp3, 02. Mp3.										

			UART Communication Com	mand					
Cont	trol Command		Query Command						
Command	Command Code	Retur	n Command	Comm	and code		Return		
Play	AA 02 00 AC	None	Query play status	AA 01 00 AB		AA 01 01, play status,			
Pause	AA 03 00 AD	None	Query current online drive	AA 0	9 00 B3	AA 09 0	1, drive, SM		
Stop	AA 04 00 AE	None	Query current play drive	AA 0	A 00 B4	AA 0A 0	1, drive, SM		
Previous	AA 05 00 AF	None	Query Number of songs	AA 0	C 00 B6	AA 0C 0	2S.N.H S.N.L SM		
Next	AA 06 00 B0	None	Query current song	AA 0	D 00 B7	AA 0D 0	2 S.N.H S.N.L SM		
Volume +	AA 14 00 BE	None	Query folder directory song	AA 1	1 00 BB	AA 11 0	2 S.N.H S.N.L SM		
Volume -	AA 15 00 BF	None	Query folder Number of song	AA 1	2 00 BC	AA 12 0	2 S.N.H S.N.L SM		
Previous file	AA 0E 00 B8	None		÷	24				
Next file	AA 0F 00 B9	None							
Stop playing	AA 10 00 BA	None							
			Setting Command		а.				
C	ommand		Command code	Return	Remark				
Set Volume		1	AA 13 01 VOL SM None			VOL:0x0	00-0xFF		
Set Loop mo	de	1	AA 18 01 Loop-mode SM None		Lo	op-mode	e:0x00-0x07		
Set Cycle tim	ies	1	AA 19 02 H L SM	None	H:0x00-0xFF L:0x00-0xFF		L:0x00-0xFF		
Set EQ		1	AA 1A 01 EQ SM	None	EQ:0x00-0x04		0-0x04		
Specified So	ng	1	AA 07 02 S.N.H S.N.LSM	None	S.N.H:0x00-0xFF S.N.L:0x00-0x		S.N.L:0x00-0xFF		
					Length:0x00-0xFF				
Specified Pat	th	1	AA 08 Length Drive Path SM	None	Drive:0x00-0xFF				
					Path:0x00-0xFF				
Switch Speci	fied Drive	1	AA 0B 01 Drive SM	None	Drive:0x00-0xFF				
					Drive:0x00-0xFF				
Specified song to be interplay			AA 16 03 Drive S.N.H S.N.L SM	None	S.N.H:0x00-0xFF				
					S.N.L:0x00-0xFF				
					1	Length:0x00-0xFF			
Specified path to be interplay			AA 17 Length Drive Path SM	None		Drive:0x00-0xFF			
						Path:0x00-0xFF			
Select but no	play	ł	AA 1F 02 S.N.H S.N.L SM	None	S.N.H:0x	00-0xFF	S.N.L:0x00-0xFF		

	One_line Si	ngle Bus Mode						
Command(HEX)	Function	Note						
0x00	No. 0							
0x01	No. 1							
0x02	No. 2							
0x03 No. 3		The number 0-9 has corresponding functions, su						
0x04	No. 4	as selecting music, setting the volume, setting EQ,						
0x05	No. 5	setting cycle mode, setting channel, setting the repertoire, and sending the digital at first and then						
0x06	No. 6	send function command.						
0x07	No. 7							
0x08	No. 8							
0x09	No. 9							
0x0A	Number reset	Sent the number of Cleared						
0x0B	Confirm choosing song							
0x0C	Volume setting							
0x0D	EQ setting							
0x0E	Loop mode setting	Cooperate with Numbers to achieve.						
0x0F	Channel setting							
0x10	Interplay song setting							
0x11	Play	Note: "selection" and "interplay" are played						
0x12	Pause	according to the track name, for example, the						
0x13	Stop	track is named "00123. Mp3", and the selected						
0x14	Previous	data is "0x01", "0x02" "0x03" "0x0B", and the						
0x15	Previous directory	selection is completed.						
0x16	Next directory	>2ms >1200us >400us >1200us						
0x17	SD card selection							
0x18	SD card selection							
0x19	U disk selection							
0x1A	FLASH selection	>200us High Level : Low Level = 1 : 3 Mean: 0						
0x1B	System sleep							
0x1C	Stop Playing	High Level : Low Level = 3 : 1 Mean: 1						