

Shengbike Intelligent Background Music System RS485 Control Protocol			
Communication method: RS-485			
RS-485 transmit parameters	Baud rate: 9600bps		
	Parity bit: none		
	Data bits: 8bits		
	Stop bit: 1bits		
Command: DATA1/DATA2/DATA3/DATA4/DATA5/DATA6			
DATA1:Start symbol (0xFA)			
DATA2:ID number (0x00) (machine unique identifier, i.e., room number, 0 is broadcast)			
DATA3:Function code See the table below			
DATA4:Group ID (0x00) (the group to which the machine belongs, no need to change)			
DATA5:Check code (Check)		Check=(Start symbol + room number + function code)&0xff Take the last 2 digits of the data sum (hexadecimal 4 bytes)	
DATA6: Protocol packet terminator (0xFE)			
Function code (data3) list			
Function code	Verification code	Function	Description
0x01	0xFB	Sound Level 1	Playback status valid
0x02	0xFC	Sound Level 2	
0x03	0xFD	Sound Level 3	
0x04	0xFE	Sound Level 4	
0x05	0xFF	Sound Level 5	
0x06	0x00	Sound Level 6	
0x07	0x01	Sound Level 7	
0x08	0x02	Sound Level 8	
0x09	0x03	Sound Level 9	
0x0A	0x04	Sound Level 10	
0x0B	0x05	Sound Level 11	
0x0C	0x06	Sound Level 12	
0x0D	0x07	Sound Level 13	
0x0E	0x08	Sound Level 14	
0x0F	0x09	Sound Level 15	
0x10	0x0A	Sound Level 16	
0x11	0x0B	Sound Level 17	
0x12	0x0C	Sound Level 18	
0x13	0x0D	Sound Level 19	
0x31	0x2B	Previous song	
0x32	0x2C	Next song	
0x33	0x2D	Play in sequence	
0x34	0x2E	Single loop	
0x35	0x2F	Random play	
0x36	0x30	List loop	
0x37	0x31	Play	
0x38	0x32	Pause	
0x39	0x33	Stop playing	
0x40	0x3A	Return	
0x41	0x3B	Volume+	
0x42	0x3C	Volume-	
0x43	0x3D	Mute	
0x44	0x3E	Unmute	
0x51	0x4B	Turn on the screen	
0x52	0x4C	Turn off the screen	
0x70	0x6A	Play TF card music	
0x71	0x6B	Play USB flash drive music	
0x77	0x71	Switch to external audio source AUX mode	
0x78	0x72	Switch to Bluetooth mode	Need to send a play command to start playing
0x7A	0x74	Switch to music mode	Need to send a play command to start playing
0x90		Query current status	See Note 2
0x91		Current song length	Unit second, see note 3
0x92		Current playback progress	Unit second, see note 4
0x93		Current playing song name	UTF-8 format, see note 5
0x94		Dual-source setup for synchronization or partitioning	
0x95		Switch to partition 1	
0x96		Switch to partition 2	

Note 1: After the control terminal sends a control command, the music host receives the command, executes the corresponding control, and then returns the accepted command to the control terminal

Such as :
Control end sends command to switch to online music mode: FA 00 7A 00 74 FE
Music host return status: FA 00 7A 00 74 FE

Note 2: The return format definition for function code 0x90

The return status format is
0xFA Room number (default 0x00) 0x90 Data1 Data2 0xFE

Data1
bit7 bit6
0 0 Indicates other status
0 1 Indicates playback status
1 0 Indicates pause state
bit5 is muted
0 Indicates not muted
1 Indicates mute (volume size is 0 when in mute state)
bit4 bit3 bit2 bit1 bit0
5 bits used to represent volume size

Data2
bit7 Screen on/off status
0 Screen off status
1 Screen on status
bit6 bit5 bit4 indicates the current music playback mode
bit6 bit5 bit4
0 0 0 List loop
0 0 1 Play in order
0 1 0 Single Loop
0 1 1 Shuffle play
bit3 bit2
These two have not been used yet
bit1 Current partition (1: Partition 1 0: Partition 2)
bit0 Current partition status (0: partition 1: broadcast)

Note 3: The return format definition of function code 0x91

Note: The return format definition of function code 0x91
0xFA Room number (default 0x00) 0x91 Data 1 0xFE
Data 1, 16-bit
Bit15 - bit0

Note 4: The return format definition of function code 0x92

The return status format is
0xFA Room number (default 0x00) 0x92 Data 1 0xFE
Data 1, 16-bit
Bit15 - bit0

Note 5: The return format definition of function code 0x93

The return status format is
0xFA Room number (default 0x00) 0x93 Data 1 0xFE
Data 1 longest 25 bytes