MuYu

MY-BT201/BT301 Commands Guide

Version 1.7

Shenzhen Muyu Technology Co., Ltd

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Content

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1.Introduction

1.1 Overview

MuYu serial communication command is the communication protocol between the Bluetooth module MY-BT201/BT301A/BT301B/BT301C and the MCU. It contains all the protocols included in the Bluetooth function such as data commands, audio command, control commands, and transmission commands. These commands may not necessarily follow the requirements. The Bluetooth module commands are consistent, but they are included. You only need to find out the corresponding required commands when you use them. If there is no response to the sending command or the return "ERROR" is normal, use the commands with the corresponding firmware That is, the default baud rate of the Bluetooth serial port is 115200.

1.2 Command Format

AT+ Command {=Param1{, Param2{, Param3…}}} <CR><LF>

- All command start with “AT”, end with <CR><LF>
- <CR> stand for “carriage return”, corresponding hex is 0x0D
- <LF> stands for “line feed”, corresponding hex is 0x0A
- If command has parameter, parameter keep behind “=”
- If command has multiple parameter, parameter must be separated by “,”
- If command has response, response start with <CR><LF>, end with <CR><LF>
- Module will always report command’s execution result using “OK” for success or “ERROR” for failure
- Module UART default baud rate 115200
- All module instructions are in uppercase letters
- Data: 8
- Parity: none
- Stop bit 1
- C->S Host send COMMAND to the module
- C<-S Module send COMMAND to host
- R: stand for read data
- W: stand for write data

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2.General Command

2.1 UART Communication Test

Command Explain
Format: AT Response: OK Description: UART communication testing between HOST and Module
Example
C->S AT C<-S OK

2.2 Read Firmware Version: AT+VER

Command Explain
Format: AT+VER Response: +VER=Param Description: Param: firmware version
Example
C->S AT+VER C<-S +VER=1.0.0,MY-BT102 C<-S OK

2.3 Read Baud Rate: AT+BAUD

Command Explain
Format: AT+BAUD Response: +BAUD=Param Description: Current Baud Rate
Example
C->S AT+BUAD C<-S +BAUD=115200 C<-S OK

2.4 Change Baudrate: AT+BAUD=Param

Command Explain
Format: AT+BAUD=Param Response: +BAUD=Param Description: Write Baudrate（1200-921600）
Example
C->S AT+BUAD=115200 C<-S +BUAD=115200 C<-S OK

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2.5 Read BR/EDR MAC Address: AT+ADDR

Command Explain
Format: AT+ADDR Response: +ADDR=Param Description: BR/EDR MAC address (12 Bytes ASCII)
Example
C->S AT+ADDR C<-S +ADDR=DD0D305AF263 C<-S OK

2.6 Read BLE MAC Address: AT+LEADDR

Command Explain
Format: AT+LEADDR Response: +LEADDR= Param Description: BLE MAC Address (12 Bytes ASCII)
Example
C->S AT+LEADDR C<-S +LEADDR=DD0D305AF262 C<-S OK

2.7 Read BR/EDR MAC Bluetooth Name: AT+NAME

Command Explain
Format: AT+NAME Response: +NAME=Param Description: BR/EDR Bluetooth Name (1~31 Bytes ASCII)
Example
C->S AT+NAME C<-S +NAME=MY-102 C<-S OK

2.8 Write BR/EDR Bluetooth Name: AT+NAME=PARAM1,PARAM2

Command Explain
Format: AT+NAME=Param1,Param2 Response: OK Description: Param1: BR/EDR Bluetooth Name (1~27/31 Bytes ASCII) Param2: Add the last four digits of the Bluetooth MAC address, 0: not adding, 1 means adding
Example
C->S AT+NAME=MY-401,1 C<-S OK

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2.9 Read BLE Name: AT+LENAME

Command Explain
Format: AT+LENAME Response: +LENAME=Param Description: BLE Name (1~29 Bytes ASCII)
Example
C->S AT+LENAME C<-S +LENAME=MY-BT401LE C<-S OK

2.10 Write BLE Name: AT+LENAME=PARAM1,PARAM2

Command Explain
Format: AT+LENAME=Param1,Param2 Response: OK Description: Param1: BLE Name (1~25/29 Bytes ASCII) Param2: Add the last four digits of the Bluetooth MAC address, 0: not adding, 1 means adding
Example
C->S AT+LENAME=MY-BT401LE,1 C<-S OK

2.11 Read PIN Code: AT+PIN

Command Explain
Format: AT+PIN Response: +PIN=Param Description: PIN Code，(4~15 Bytes ASCII), Default PIN Code: 0000
Example
C->S AT+PIN C<-S +PIN=0000 C<-S OK

2.12 Write PIN Code: AT+PIN=PARAM

Format: AT+PIN=Param Response: +PIN=Param Description: PIN Code (4~15 Bytes ASCII)
Example
C->S AT+PIN=1234 C<-S OK

2.13 Read SSP (Secure Simple Pairing) Status: AT+SSP

Command Explain
Format: AT+SSP

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Response: +SSP=Param(0~1) Description: Param=0(turn off SSP), 1(turn on SSP)
Example
C->S AT+SSP C<-S +SSP=0 C<-S OK

2.14 Write SSP (Secure Simple Pairing) Status: AT+SSP=PARAM

Command Explain
Format: AT+SSP=Param(0~1) Response: +SSP=Param Description: Param=0(turn off SSP), 1(turn on SSP)
Example
C->S AT+SSP=1 C<-S OK

2.15 Read Bluetooth Icon: AT+COD

Command Explain
Format: AT+COD Response: +COD=Param Description: Param=Bluetooth Icon，Used to display on the device, such as headset form, keyboard form, mouse form, etc.
Example
C->S AT+COD C<-S +COD=240404 C<-S OK

2.16 Write Bluetooth Icon: AT+COD=Param

Command Explain
Format: AT+COD=Param Response: +COD=Param OK Description: Param=Bluetooth Icon，Used to display on the device, such as headset form, keyboard form, mouse form, etc.
Example
C->S AT+COD=240204 C<-S +COD=240404 C<-S OK

2.17 Read Run Mode: AT+MODE

Command Explain
Format: AT+MODE Response: +MODE=Param(1~4) Description: 1: SPP 2: BLE 3: HID 4: SPP+BLE

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Example
C->S AT+MODE C<-S +MODE=3 C<-S OK

2.18 Read Run Mode: AT+MODE=PARAM

Command Explain
Format: AT+MODE=Param(1~4) Response: +MODE=Param Description: 1: SPP 2: BLE 3: HID 4: SPP+BLE
Example
C->S AT+MODE=3 C<-S +MODE=3 C<-S OK

2.19 Read Paired Record: AT+PLIST

Format: AT+PLIST Response: +PLIST={ +PLIST=Param1,Param2 +PLIST=} Description: Param1= Number of paired records and sorting（1~4） Param2=Bluetooth MAC address
Example
C->S AT+PLIST C<-S +PLIST={ +PLIST=1,D89B3B9EAE9F +PLIST=} C<-S OK

2.20 Clear Paired Record: AT+PLIST=Param

Command Explain
Format: AT+PLIST=Param Response: OK Description: Param=0 Clear all paired record Param=1~4, Clear the corresponding pairing record according to the index of 1~4 Param=MAC address， clear specific paired record with MAC address
Example
C->S AT+PLIST=0 C<-S OK

2.21 Read Low Power Mode: AT+LPM

Command Explain
Format: AT+LPM Response: +LPM =Param(0~1)

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Description: 0: turn off Low Power Mode 1: turn on Low Power Mode
Example
C->S AT+LPM C<-S +LPM =1 C<-S OK

2.22 Write Low Power Mode: AT+LPM =PARAM

Command Explain
Format: AT+LPM =Param(0~1) Response: +LPM =Param Description: 0: turn off Low Power Mode 1: turn on Low Power Mode
Example
C->S AT+LPM =1 C<-S +LPM =1 C<-S OK

2.23 Read Power On Auto Reconnect: AT+AUTOCONN

Command Explain
Format: AT+AUTOCONN Response: +AUTOCONN=Param(0~1) Description 0: turn off Power On Auto Reconnect 1: turn on Power On Auto Reconnect
Example
C->S AT+AUTOCONN C<-S +AUTOCONN=1 C<-S OK

2.24 Turn On/Off Power On Auto Reconnect: AT+AUTOCONN=PARAM

Command Explain
Format: AT+AUTOCONN=Param(0~1) Response: +AUTOCONN=Param Description 0: turn off Power On Auto Reconnect 1: turn on Power On Auto Reconnect
Example
C->S AT+AUTOCONN=1 C<-S +AUTOCONN=1 C<-S OK

2.25 Disconnect the connected device: AT+DISC

Command Explain
Format: AT+DISC Response: OK Description: Disconnect the connected devices
Example
C->S AT+DISC

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C<-S OK

2.26 Disconnect all connected devices: AT+DISCA

Command Explain
Format: AT+DISCA Response: OK Description: Disconnect all connected devices
Example
C->S AT+DISCA C<-S OK

2.27 Restart the device: AT+REBOOT

Command Explain
Format: AT+REBOOT Response: OK Description: Restart the device
Example
C->S AT+REBOOT C<-S OK

2.28 Restore: AT+RESTORE(NEED REBOOT)

Command Explain
Format: AT+RESTORE Format: OK Description: Restore the settings to the initial state
Example
C->S AT+RESTOER C<-S OK

2.29 Connect Bluetooth Device: AT+CONN=PARAM

Command Explain
Format: AT+CONN=PARAM Response: + CONN = PARAM OK Description: PARAM: MAC address + address type, a total of 13 characters. The address type can be viewed through the AT+SCAN result
Example
C->S AT+ CONN=1122334455660 C<-S OK

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2.30 Scan all Bluetooth devices: AT+SCAN

Command Explain
Format: AT+SCAN Response: +SCAN=Param1,Param2,Param3,Param4,Param5,Param6 OK Description:

Param1	Index(1~8)
Param2	Address type(0~2) 0:LE shared address 1:LE random address 2:BR/EDR address
Param3	MAC address (12 Bytes ASCII)
Param4	RSSI(-255~0)
Param5	Lenth of Param6
Param6	BR/EDR device name or broadcast data for LE devices

Example
C->S AT+SCAN C<-S +SCAN=1,0,3C610529F63E,-80,9,MY-BT C<-S +SCAN=2,1,3C610529FFFE,-10,8,MY-BT C<-S OK

2.31 Stop Scanning Bluetooth Device: AT+SCAN=0

Command Explain
Format: AT+SCAN=0 Response: OK Description: 2.29 Stop Scanning Bluetooth Device
Example
C->S AT+SCAN=0 C<-S OK

2.32 Scan BR/EDR Bluetooth Device: AT+SCAN=1

Command Explain
Format: AT+SCAN=1 Response: +SCAN=Param1,Param2,Param3,Param4,Param5,Param6 Decription:

Param1	Index(1~8)
Param2	Address type(0~2) 0:LE shared address 1:LE random address 2:BR/EDR address
Param3	MAC address (12 Bytes ASCII)
Param4	RSSI(-255~0)
Param5	Lenth of Param6
Param6	BR/EDR device name

Example
C->S AT+SCAN=1 C<-S +SCAN=1,0,3C610529F63E,-80,9,MY-BT C<-S +SCAN=2,1,3C610529FFFE,-10,8,MY-BT C<-S OK

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2.33 Scan BLE Device: AT+SCAN=2

Command Explain		
Format: AT+SCAN=2 Response: +SCAN=Param1,Param2,Param3,Param4,Param5,Param6 Description:		
	Param1	Index(1~8)
	Param2	Address type(0~2) 0:LE shared address 1:LE random address 2:BR/EDR address
	Param3	MAC address (12 Bytes ASCII)
	Param4	RSSI(-255~0)
	Param5	Lenth of Param6
	Param6	broadcast data for LE devices
Example		
C->S AT+SCAN=2 C<-S +SCAN=1,0,3C610529F63E,-80,9,MY-BT C<-S +SCAN=2,1,3C610529FFFE,-10,8,MY-BT C<-S OK		

2.34 Scan Time: AT+SCANTIME=PARAM

Command Explain
Format: AT+SCAN=2 Response: +SCAN=Param Description: Unit: second
Example
C->S AT+SCANTIME=2 C<-S OK

2.35 Read currently connected device: AT+LINK

Command Explain		
Format: AT+LINK Response: +LINK=Param1,Param2,Param3 Description:		
	Param1	Index
	Param2	Mater or Slave
	Param3	MAC address (12 Bytes ASCII)
Example		
C->S AT+LINK C<-S +LINK=1,S,3C610529F63E C<-S +LINK=2,S,3C610529FFFE C<-S OK		

2.36 Connect devices according to scan index: AT+LINK=PARAM

Command Explain

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Format: AT+LINK=PARAM Response: + LINK= PARAM Description: PARAM: the index of the AT+SCAN scan result -1
Example
C->S AT+LINK=0 C<-S +LINK=0 C<-S OK

2.37 Automatic connection based on scan results:

AT+SCANAC=PARAM(MASTER ONLY)

Command Explain
Format: AT+SCANAC=Param Response: + SCANAC =Param Description: Whether to automatically connect to the device after scanning for surrounding devices. It only works when the filter configuration condition AT+FILTER=param is configured.
Example
C->S AT+SCANAC =1 C<-S + SCANAC =1 C<-S OK

2.38 Set scanning filter conditions: AT+FILTER= PARAM

Command Explain
Format: AT+FILTER=Param Response: + FILTER =Param Description: Configure the filtering conditions for scan results. After configuration, the scan results will only display devices that meet the filter criteria.
Example
C->S AT+FILTER =1 C<-S + FILTER =1 C<-S OK

0	No Filter
1	Filter according name of scan result
2	Filter according mac address of scan result
3	Filter according rssi of scan result
4	Filter according ADV of scan result

2.39 Read scanning filter conditions: AT+FILTER

Command Explain
Format: AT+FILTER Response: + FILTER =Param Description:

0	No Filter
1	Filter according name of scan result
2	Filter according mac address of scan result
3	Filter according rssi of scan result

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4	Filter according ADV of scan result

Example
C->S AT+FILTER C<-S + FILTER =1 C<-S OK

2.40 Filter scanned Bluetooth names: AT+FILTERNAME= PARAM

c
Format: AT+FILTERNAME=Param Response: + FILTERNAME =Param Description: The maximum value of the Param length is the same as the maximum value of the Bluetooth name, and the set BLE Bluetooth name filter length range (1~29 characters)
Example
C->S AT+FILTERNAME=MY-BT C<-S + FILTERNAME =MY-BT C<-S OK

2.41 Filter scanned Bluetooth addresses: AT+FILTERADDR= PARAM

Command Explain
Format: AT+FILTERADDR=Param Response: + FILTERADDR =Param Description: The maximum value of the Param length is the same as the maximum value of the Bluetooth address, and the set filter range (1~12) characters
Example
C->S AT+FILTERADDR =112233 C<-S + FILTERADDR =112233 C<-S OK

2.42 Filter scanned Bluetooth RSSI value: AT+FILTERRSSI= PARAM

Command Explain
Format: AT+FILTERRSSI=Param Response: + FILTERRSSI =Param Description: Param: RSSI value. Only the values within this range can be scanned, and those exceeding this value cannot be scanned.。
Example
C->S AT+FILTERRSSI =70 C<-S + FILTERRSSI =70 C<-S OK

2.43 Filter scanned broadcast content: AT+FILTERADV= PARAM

Command Explain

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Format: AT+FILTERADV=Param Response: + FILTERADV =Param Description: The maximum value of Param is the maximum value of Bluetooth broadcast, and the setting filter range is (1~31).
Example
C->S AT+FILTERADV =0201020C09 C<-S + FILTERADV =0201020C09 C<-S OK

3.Audio Command

3.1 Read Bluetooth PROFILE: AT+PROFILE

Command Explain	
Format: AT+PROFILE Description: Default:171(Decimal)	
BIT0	SPP (Serial Port Profile)
BIT1	GATT Server (Generic Attribute Profile)
BIT2	GATT Client (Generic Attribute Profile)
BIT3	HFP Sink (Hands-Free Profile)
BIT4	HFP Source (Hands-Free Profile)
BIT5	A2DP Sink (Advance Audio Distribution Profile)
BIT6	A2DP Source (Advance Audio Distribution Profile)
BIT7	AVRCP Controller (Audio/Video Remote Controller Profile)
BIT8	AVRCP Target (Audio/Video Remote Controller Profile)
BIT9	HID Keyboard (Human Interface Profile)
BIT10	PBAP Server (Phonebook Access Profile)
Example:	
D->S AT+PROFILE C<-S +PROFILE=171	

3.2 Configure PROFILE: AT+PROFILE=PARAM

Command Explain	
Format: AT+PROFILE =Param Description: Default:171(Decimal)	
BIT0	SPP (Serial Port Profile)
BIT1	GATT Server (Generic Attribute Profile)
BIT2	GATT Client (Generic Attribute Profile)
BIT3	HFP Sink (Hands-Free Profile)
BIT4	HFP Source (Hands-Free Profile)
BIT5	A2DP Sink (Advance Audio Distribution Profile)
BIT6	A2DP Source (Advance Audio Distribution Profile)
BIT7	AVRCP Controller (Audio/Video Remote Controller Profile)
BIT8	AVRCP Target (Audio/Video Remote Controller Profile)
BIT9	HID Keyboard (Human Interface Profile)
BIT10	PBAP Server (Phonebook Access Profile)
Example: Open A2DP Sink , HFP Sink， close other functions	

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E->S AT+PROFILE=160 C<-S OK

3.3 Read Volume: AT+SPKVOL

Command Explain
Format: AT+SPKVOL Response： +SPKVOL=Param Description: current volume level
Example
C->S AT+SPKVOL C<-S +SPKVOL=10 C<-S OK

3.4 Increase Speaker Volume: AT+SPKVOL=+

Command Explain
Format: AT+SPKVOL=+ Response： OK Description: Each time, the volume increases by one until the maximum volume is reached.
Example
C->S AT+SPKVOL=+ C<-S OK

3.5 Speaker Volume Down: AT+SPKVOL=-

Command Explain
Format: AT+SPKVOL=- Response: OK Description: Each time the volume is decremented by one, until the minimum volume
Example
C->S AT+SPKVOL=- C<-S OK

3.6 Read MIC Volume: AT+MICGAIN(A2DP/HSP SOURCE ONLY)

Command Explain
Format: AT+MICGAIN Response： +MICGAIN =Param Description: Current volume level
Example
C->S AT+MICGAIN C<-S +MICGAIN =10 C<-S OK

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3.7 Increase MIC Volume: AT+MICGAIN=+

Command Explain
Format: AT+MICGAIN =+ Response： OK Description: Each time, the volume increases by one until the maximum volume is reached.
Example
C->S AT+MICGAIN =+ C<-S OK

3.8 Reduce MIC Volume: AT+MICGAIN=-

Command Explain
Format: AT+MICGAIN =- Response： OK Description: Each time the volume is decremented by one, until the minimum volume
Example
C->S AT+MICGAIN =- C<-S OK

3.9 Read Audio Input Mode: AT+AUXCFG

Command Explain
Format: AT+AUXCFG Response: +AUXCFG =Param(0~3) Description: 0: BT Module 1: Line In Mode 2: SPDIF Mode 3: I²S Mode
Example
C->S AT+AUXCFG C<-S +AUXCFG=1 C<-S OK

3.10 Change Audio Input Mode: AT+AUXCFG=PARAM

Command Explain
Format: AT+AUXCFG = Param(0~3) Response: +AUXCFG = Param(0~3) Description: 0: BT Module 1: Line In Mode 2: SPDIF Mode 3: I²S Mode
Example
C->S AT+AUXCFG=1 C<-S OK

3.11 Read I²S: AT+I2SCFG

Command Explain

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Format: AT+I2SCFG
Response： +I2SCFG=Param
Description:

BIT0	Function disable/enable	0: Disable 1: Enable
BIT1	Work mode	0: Master 1: Slave
BIT2	Sample rate	0:48khz 1:44.1khz
BIT3~4	Format	00: Philips 01: Right justified 10: Left justified
BIT5~6	Bit mode	00:16-bit 01:24-bit 10:32-bit

Eg： I^2S Master Mode, 44.1K Sample Rate, Philips Format, the binary array of 24-bit data: 1010001, Decimal is 81, at this time Param=81

Example

C->S AT+I2SCFG
C<-S +I2SCFG=81
C<-S OK

3.12 Change I^2S : AT+I2SCFG=PARAM (NEED REBOOT)

Command Explain

Format: AT+I2SCFG=Param
Response： +I2SCFG=Param
Description:

BIT0	Function disable/enable	0: Disable 1: Enable
BIT1	Work mode	0: Master 1: Slave
BIT2	Sample rate	0:48khz 1:44.1khz
BIT3~4	Format	00: Philips 01: Right justified 10: Left justified
BIT5~6	Bit mode	00:16-bit 01:24-bit 10:32-bit

Eg： I^2S Master Mode, 44.1K Sample Rate, Philips Format, the binary array of 24-bit data is: 1010001, Decimal is 81, at this time Param=81

Note: Restart after setting is valid.

Example

C->S AT+I2SCFG=81
C<-S OK

3.13 Read SPDIF: AT+SPDIFCFG

Command Explain

Format: AT+SPDIFCFG
Response： +SPDIFCFG=Param
Description: 0: disable 1: enable

Example

C->S AT+SPDIFCFG
C<-S +SPDIFCFG =1
C<-S OK

3.14 Change SPDIF: AT+SPDIFCFG=PARAM (NEED REBOOT)

Command Explain

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Format: AT+SPDIFCFG=Param Response： +SPDIFCFG =Param Description: 0:disable 1:enable (Restart after setting is valid.)
Example
C->S AT+SPDIFCFG =1 C<-S OK

3.15 Turn On/Off Bluetooth: AT+BTEN=PARAM

Command Explain
Format: AT+BTEN=Param Response： +BTEN=Param Description: 0: Turn off BT 1: Turn on BT
Example
C->S AT+BTEN=1 C<-S +BTEN=1 C<-S OK

3.16 Change Paired Mode: AT+PAIR=PARAM

Command Explain
Format: AT+PAIR=Param(0~1) Response： +PAIR=Param Description: 0: Turn off Paired Mode 1: Turn on paired mode
Example
C->S AT+PAIR=1 C<-S +PAIR=1 C<-S OK

3.17 Read Paired Mode: AT+PAIR

Command Explain
Format: AT+PAIR Response： +PAIR=Param(0~1) Description: 0: Not Paired Mode 1: Paired Mode
Example
C->S AT+PAIR=1 C<-S +PAIR=1 C<-S OK

3.18 Read Serial Debugging Print Mode: AT+PRINT

Command Explain
Format: AT+PRINT Response： +PRINT=Param(0~1) Description: 0: Turn off 1: Turn On
Example

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C->S AT+PRINT C<-S +PRINT=1 C<-S OK

3.19 Turn On/Off Serial Debugging Print Mode: AT+PRINT=PARAM

Command Explain
Format: AT+PRINT=Param (0~1) Response： +PRINT=Param Description: 0: Turn off 1: turn on
Example
C->S AT+PRINT=1 C<-S +PRINT=1 C<-S OK

3.20 Read Delay Control MUTE Time: AT+MUTEDELAY

Command Explain
Format: AT+MUTEDELAY Response： +MUTEDELAY=Param Description: Delay time, unit: ms
Example
C->S AT+MUTEDELAY C<-S +MUTEDELAY=50 C<-S OK

3.21 Change Delay Control MUTE Time: AT+MUTEDELAY=PARAM

Command Explain
Format: AT+MUTEDELAY=Param Response： +MUTEDELAY=Param Description: Delay time, unit: ms
Example
C->S AT+MUTEDELAY=50 C<-S +MUTEDELAY=50 C<-S OK

3.22 Read LINE IN: AT+LINECFG

Command Explain
Format: AT+LINECFG Response： +LINECFG=Param(0~1) Description: 0 : Turn off LINE IN 1: Turn on LINE IN
Example
C->S AT+LINECFG C<-S +LINECFG=0 C<-S OK

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3.23 Turn On/Off LINE IN: AT+LINECFG=PARAM

Command Explain
Format: AT+LINECFG=Param(0~1) Response： +LINECFG=Param Description: 0 : Turn off LINE IN 1 : Turn on LINE IN
Example
C->S AT+LINECFG=1 C<-S +LINECFG=1 C<-S OK

3.24 Read HFP Status: AT+HFPSTAT

Command Explain
Format: AT+HFPSTAT Response：+HFPSTAT=Param Description: 0: Not initialized 1: Not connected 2: Connected 3: Connected 4: Outgoing 5: Incoming call 6: Calling
Example
C<-S +HFPSATA=1

3.25 Read HFP Connect Status: AT+HFPCONN

Command Explain
Format: AT+HFPCONN Response： +HFPCONN=Param Description: currently connected Bluetooth address
Example
C->S AT+HFPCONN C<-S +HFPCONN=1234567890 C<-S OK

3.26 HFP connects to the specified MAC address device: AT+HFPCONN=MAC

Command Explain
Format: AT+HFPCONN=Param Response： +HFPCONN=Param Description: connects to the specified MAC address device
Example
C->S AT+HFPCONN=12345657890 C<-S +HFPCONN=12345657890 C<-S OK

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3.27 HFP Disconnect: AT+HFPDISC

Command Explain
Format: AT+HFPDISC Response： OK Description: Disconnect connected HFP channel
Example

3.28 Redial: AT+HFPDIAL

Command Explain
Format: AT+HFPDIAL Response: +HFPDIAL=07556687359 OK Description: phone number dialed
Example
C->S AT+HFPDIAL C<-S +HFPCONN=07556697359 C<-S OK

3.29 Dial: AT+HFPDIAL=PARAM

Command Explain
Format: AT+HFPDIAL=Param Response： +HFPDIAL= Param OK Description: phone number dial
Example
C->S AT+HFPDIAL=07556697359 C<-S +HFPCONN=07556697359 C<-S OK

3.30 Answer Calls: AT+HFPANSW

Command Explain
Format: AT+HFPANSW Response： OK Description: Answer Calls
Example
C->S AT+HFPANSW C<-S OK

3.31 Hang Up: AT+HFPCHUP

Command Explain

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Format: AT+HFPCHUP Response： OK Description: hang up
Example
C->S AT+HFPACHUP C<-S OK

3.32 Voice Switch: AT+HFPADTS=PARAM

Command Explain
Format: AT+HFPADTS=Param(0~1) Response： OK Description: 0: Audio output from the module 1: Audio output from the phone
Example
C->S AT+HFPADTS=0 C<-S OK

3.33 Voice Assistant: AT+HFPVR=PARAM

Command Explain
Format: AT+HFPVR=Param(0~1) Response： OK Description: 0: stop speech recognition 1: start speech recognition
Example
C->S AT+HFPVR=0 C<-S OK

3.34 Establish/Disconnect Voice Audio: AT+HFPAUDIO=PARAM (HFP SOURCE ONLY)

Command Explain
Format: AT+HFPAUDIO=Param(0~1) Response： OK Description: 0: Disconnect voice audio 1: Establish voice audio
Example
C->S AT+ HFPAUDIO =0 C<-S OK

3.35 Read MIC Status: AT+MUTEMIC

Command Explain
Format: AT+MUTEMIC Response: +MUTEMIC=Param(0~1) OK Description: 0: turn off MIC， 1: turn on MIC
Example

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C->S AT+MUTEMIC C<-S +MUTEMIC=1 C<-S OK

3.36 Turn On/Off MIC AT+MUTEMIC=PARAM

Command Explain
Format: AT+MUTEMIC=Param(0~1) Response： +MUTEMIC=Param OK Description: 0: Turn off MIC 1:Turn on MIC
Example
C->S AT+MUTEMIC=1 C<-S +MUTEMIC=1 C<-S OK

3.37 Read A2DP Status: AT+A2DPSTAT

Command Explain
Format: AT+A2DPSTAT Response： +A2DPSTAT=Param(0~4) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected 4: Playing
Example
C->S AT+A2DPSTAT C<-S + A2DPSTAT =1

3.38 Reconnect A2DP: AT+A2DPCONN

Command Explain
Format: AT+A2DPCONN Response： +OK Description: A2DP to connect to the last paired device
Example
C->S AT+A2DPCONN C<-S +OK

3.39 Connect to the specified A2DP device: AT+A2DPCONN=PARAM

Command Explain
Format: AT+A2DPCONN=Param Response： +OK Description: Connect the device with the specified MAC address (12bytes ASCII)
Example
C->S AT+A2DPCONN=112233445566 C<-S +OK

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3.40 Disconnect A2DP: AT+A2DPDISC

Command Explain
Format: AT+A2DPDISC Response： +OK Description: Disconnect A2DP connection
Example
C->S AT+A2DPDISC C<-S +OK

3.41 Read AVRCP Status: AT+AVRCPSTAT

Command Explain
Format: AT+AVRCPSTAT Response： +AVRCPSTAT=Param(0~3) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected
Example
C->S AT+AVRCPSTAT C<-S +AVRCPSTAT=3

3.42 Read AVRCP Configuration: AT+AVRCPCFG

Command Explain		
Format: AT+AVRCPCFG Response： +AVRCPCFG=Param Description:		
	BIT0	Automatically get ID3 information (title, artist, album) default is 1
	BIT1~3	If it is greater than 0, automatically obtain the music status (playing progress) in seconds
Example		
C->S AT+AVRCPCFG C<-S +AVRCPCFG =3		

3.43 Configure AVRCP: AT+AVRCPCFG=PARAM

Command Explain		
Format: AT+AVRCPCFG= Param Response： +OK Description:		
	BIT0	Automatically get ID3 information (title, artist, album) default is 1
	BIT1~3	If it is greater than 0, automatically obtain the music status (playing progress) in seconds
Example		
C->S AT+AVRCPCFG=7 C<-S +OK		

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3.44 Audio Play: AT+PLAY

Command Explain
Format: AT+PLAY Response： +OK Description:
Example
C->S AT+PLAY C<-S +OK

3.45 Audio Pause: AT+PAUSE

Command Explain
Format: AT+PAUSE Response： +OK Description:
Example
C->S AT+PAUSE C<-S +OK

3.46 Play/Pause Exchange: AT+PLAYPAUSE

Command Explain
Format: AT+PLAYPAUSE Response： +OK Description:
Example
C->S AT+PLAYPAUSE C<-S +OK

3.47 Stop: AT+STOP

Command Explain
Format: AT+STOP Response： +OK Description:
Example
C->S AT+STOP C<-S +OK
指令说明

3.48 Next Song: AT+FORWARD

Command Explain

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Format: AT+FORWARD Response： +OK Description:
Example
C->S AT+FORWARD C<-S +OK

3.49 Previous Song AT+BACKWARD

Command Explain
Format: AT+BACKWARD Response： +OK Description:
Example
C->S AT+BACKWARD C<-S +OK

3.50 Fast-forward: AT+FFDW

Command Explain
Format: AT+FFDW Response： +OK Description:
Example
C->S AT+FFDW C<-S +OK

3.51 Backward: AT+RWD

Command Explain
Format: AT+RWD Response： +OK Description:
Example
C->S AT+RWD C<-S +OK

3.52 Establish/Disconnect A2DP Connect: AT+A2DPAUDIO(A2DP SOURCE ONLY)

Command Explain
Format: AT+A2DPAUDIO=Param(0~1) Response： +OK Description: 0: Disconnect A2DP with the remote receiver 1: Establish A2DP with the remote receiver
Example

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C->S AT+ A2DPAUDIO=1 C<-S +OK

3.53 Read A2DP configure: AT+A2DPCFG

Command Explain				
Format: AT+A2DCFG Response： +A2DCFG=Param Description:				
	BIT0	AAC	0:Disable	1:Enable
	BIT1	APTX	0:Disable	1:Enable
	BIT2	APTX-LL	0:Disable	1:Enable
	BIT3	APTX-HD	0:Disable	1:Enable
	BIT4	APTX-AD	0:Disable	1:Enable
	BIT5	LDAC	0:Disable	1:Enable
Example				
C->S AT+A2DCFG C<-S +A2DCFG=1				

3.54 Configure A2DP: AT+A2DPCFG=PARAM

Command Explain				
Format: AT+A2DCFG= Param Response： +OK Description:				
	BIT0	AAC	0:Disable	1:Enable
	BIT1	APTX	0:Disable	1:Enable
	BIT2	APTX-LL	0:Disable	1:Enable
	BIT3	APTX-HD	0:Disable	1:Enable
	BIT4	APTX-AD	0:Disable	1:Enable
	BIT5	LDAC	0:Disable	1:Enable
Example				
C->S AT+ A2DCFG =1 C<-S +OK				

3.55 Read PBAP Status: AT+PBSTAT

Command Explain
Format: AT+PBSTAT Response： +PBSTAT=Param(0~4) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected 4: Downloading
Example
C->S AT+PBSTAT C<-S +PBSTAT=4

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3.56 Download all phonebooks: AT+PBDOWN=PARAM1

Command Explain
Format: AT+PBDOWN=Param1 Response： +PBCNT= Param2 +PBDATA= Param3,Param4,Param5,Param6 +PBDATA=E Description: Param1: PhoneBook type (0~5) 0: Phonebook (SIM Storage) 1:Phonebook(Phone Storage) 2:Received call log 3:Dialed call log 4:Missed call log 5:All call log Param2: Returns the total number of records Param3: The type of the returned record is the same as Param1 Param4: Returns the name of the record （UTF8) Param5: Returns the number of records (ASCII) Param6: Returns the recorded Call Time (15 Bytes ASCII) ， Not all mobile phones support。 Year(4Bytes)Moth(2Bytes)Day(2Bytes)T(1Byte)Hour(2Bytes)Minute(2Bytes)Second(2Bytes)
Example
C->S AT+PBDOWN=3 C<-S +PBCNT=100 C<-S +PBDATA=3,China Mobile,10086,20210101T010101 …… +PBDATA=E

3.57 Download part of the phone book: AT+PBDOWN=PARAM1, PARAM2

Command Explain
Format: AT+PBDOWN=Param1,Param2 Response： +PBDATA= Param3,Param4,Param5,Param6 +PBDATA=E Description: Param1:PhoneBook type(0~5) 0:Phonebook(SIM Storage) 1:Phonebook(Phone Storage) 2:Received call log 3:Dialed call log 4:Missed call log 5:All call log Param2: Max items(1~65536,default:3000 forphonebook,50 for call log) Param3: The type of the returned record is the same as Param1 Param4: Returns the name of the record (UTF8) Param5: Returns the number of records (ASCII) Param6: Returns the recorded Call Time (15 Bytes ASCII) ， Not all mobile phones support。 Year(4Bytes)Moth(2Bytes)Day(2Bytes)T(1Byte)Hour(2Bytes)Minute(2Bytes)Second(2Bytes)
Example
C->S AT+ PBDOWN=3,2 C<-S + PBDATA=3,China Mobile,10086,20210101T100101 + PBDATA=3,Jack,18695938878,20210201T100201 +PBDATA=E

3.58 Read SPP Status: AT+SPPSTAT

Command Explain
Format: AT+SPPSTAT Response： +SPPSTAT=Param(0~3) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected

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Example
C->S AT+SPPSTAT C<-S +SPPSTAT =3

3.59 Establish SPP connection: AT+SPPCONN=PARAM

Command Explain
Format: AT+SPPCONN=Param Response： +OK Description: Device MAC address (12Bytes ASII) If target device is a phone , RFCOMM service must be initialized.
Example
C->S AT+SPPCONN=112233445566 C<-S +OK

3.60 Disconnect SPP Connection AT+SPPDISC

Command Explain
Format: AT+SPPDISC Response： +OK Description: Disconnect SPP from Bluetooth device
Example
C->S AT+SPPDISC C<-S +OK

3.61 Read GATT Status: AT+GATTSTAT

Command Explain
Format: AT+GATTSTAT Response： +GATTSTAT=Param(0~3) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected
Example
C->S AT+GATTSTAT C<-S +GATTSTAT =3

3.62 Disconnect GATT Connection: AT+GATTDISC

Command Explain
Format: AT+GATTDISC Response： +OK Description: Disconnect GATT from Bluetooth device
Example
C->S AT+GATTDISC C<-S +OK

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4. Data commands

4.1 Read PIO function configuration: AT+PIOCFG

Command Explain
Format: AT+PIOCFG Response： +PIOCFG=Param1,Param2 Description: Param1: 0: disable command/transmission mode switching function 1: enable command/transmission switching function Param2: 0:disable bluetooth disconnect function 1:enable bluetooth disconnect function
Example
C->S AT+PIOCFG C<-S +PIOCFG=1,1

4.2 Write PIO function configuration AT+PIOCFG=PARAM1,PARAM2

Command Explain
Format: AT+PIOCFG=Param1,Param2 Response： +OK Description: Param1: 0: disable command/transmission mode switching function 1: enable command/transmission switching function Param2: 0:disable bluetooth disconnect function 1:enable bluetooth disconnect function
Example
C->S AT+PIOCFG=1,1 C<-S +OK

4.3 Read Throughput mode: AT+TPMODE

Command Explain
Format: AT+TPMODE Response: +TPMODE=Param(0~1) OK Description: 0:turn off Throughput mode 1: turn on Throughput mode
Example
C->S AT+TPMODE C<-S +TPMODE=1 C<-S OK

4.4 Set Throughput mode: AT+TPMODE=PARAM

Command Explain
Format: AT+TPMODE=Param(0~1) Response: +TPMODE=Param

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OK Description: 0:turn off Throughput mode 1: turn on Throughput mode
Example
C->S AT+TPMODE=1 C<-S +TPMODE=1 C<-S OK

4.5 Read Hardware Flow Control: AT+FLOWCTL

Command Explain
Format: AT+FLOWCTL Response: +FLOWCTL=Param(0~1) OK Description: 0:turn off 1: turn on
Example
C->S AT+FLOWCTL C<-S +FLOWCTL=1 C<-S OK

4.6 Turn On/Off Hardware Flow Control: AT+FLOWCTL=PARAM

Command Explain
Format: AT+FLOWCTL=Param(0~1) Response: +FLOWCTL=Param OK Description: 0:turn off 1: turn on
Example
C->S AT+FLOWCTL=1 C<-S +FLOWCTL=1 C<-S OK

4.7 Read BLE status: AT+LECFG

Command Explain
Format: AT+LECFG Response：+LECFG=Param(0~1) Description: 0:turn off BLE 1: turn on BLE
Example
C->S AT+LECFG C<-S +LECFG=1 C<-S OK

4.8 Turn on/off BLE status: AT+LECFG=PARAM

Command Explain
Format: AT+LECFG=Param(0~1) Response：+OK Description: 0:turn off BLE 1: turn on BLE

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Example
C->S AT+LECFG=1 C<-S +LECFG=1 C<-S OK

4.9 Send data via SPP: AT+SPPSEND=PARAM1,PARAM2

Command Explain
Format: AT+SPPSEND=Param1,Param2 Response： +OK Description: Param1:Lenth(1~236) Param2:Data(1~236 Bytes UTF8)
Example
C->S AT+SPPSEND=5,12345 C<-S +OK

4.10 Multiple connections send data via SPP: AT+SPPSEND=PARAM1, PARAM2,PARAM3

Command Explain
Format: AT+SPPSEND=Param1,Param2,Param3 Response： +OK Description: Param1: Link index, query through AT+LINK; Param1:Lenth(1~236); Param2:Data(1~236 Bytes UTF8)
Example
C->S AT+SPPSEND=1,,5,12345 C<-S +OK

4.11 Send Data via GATT: AT+GATTSEND=PARAM1,PARAM2

Command Explain
Format: AT+GATTSEND=Param1,Param2 Response： +OK Description: Param1:Lenth(1~100) Param2:Data(1~100 Bytes UTF8)
Example
C->S AT+GATTSEND=5,12345 C<-S +OK

4.12 Multiple connections send data via GATT: AT+GATTSEND=PARAM1,PARAM2,PARAM3

Command Explain
Format: AT+GATTSEND=Param1,Param2,Param3 Response: +OK Description: Param1: Link index, query through AT+LINK; Param1:Lenth(1~100); Param2:Data(1~100

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Bytes UTF8)
Example
C->S AT+GATTSEND=1,,5,12345 C<-S +OK

5. BLE Data Command

5.1 Read BLE Peripheral/Central Mode: AT+ROLE

Command Explain
Format: AT+ROLE Response: +ROLE=Param(0~1) Description: 0: Peripheral Mode 1:Central Mode
Example
C->S AT+ROLE C<-S +ROLE=0 C<-S OK

5.2 Change BLE Peripheral/Central Mode: AT+ROLE=Param

Command Explain
Format: AT+ROLE= Param(0~1) Response: +OK Description: 0: Peripheral Mode 1:Central Mode
Example
C->S AT+ROLE=1 C<-S OK

5.3 Establish BLE Connection AT+LECONN (Central Mode Only)

Command Explain
Format: AT+LECONN=Param1,Param2,Param3,Param4 Response: +SCAN=Param1,Param2,Param3,Param4 Description: Param1: MAC Address, Param2: Service-UUID, Param3: Wire-UUID, Param4: Notify-UUID
Example
C->S AT+LECONN=3C610529F63E,FFF0,FFF2,FFFF1 C<-S OK

5.4 BLE Send Data: AT+LESEND BLE

Command Explain

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Format: AT+LESEND=Param1,Param2 Response: OK Description: Description: Param1: Payload Data Length Param2: Payload Data
Example
C->S AT+LESEND=10,1234567890 C<-S OK

5.5 Set BLE UUID: AT+SETUUID

Command Explain
Format: AT+SETUUID=Param1，Param2，Param3 Description: Param1: Service-UUID, Param2: Write-UUID, Param3: Notify-UUID Support 16bit/128bit
Example
C->S AT+SETUUID=FFF0,FFF2,FFFF1 C<-S +UUID=FFF0,FFF2,FFFF1 C<-S OK

6.General instructions

6.1 Device Status: +DEVSTAT

Command Explain

Format: +DEVSTAT=Param

Description:

BIT0	switch status	0: Turn off	1: Turn on
BIT1	BR/EDR discover	0: Enable	1: Disable
BIT2	BLE Broadcast	0: Turn off	1: Turn on
BIT3	BR/EDR Scan	0: Turn off	1: Scanning
BIT4	BLE Scan	0: Disable	1: Scanning

Example

C<-S + DEVSTAT =7

6.2 Scan Results: +SCAN

Command Explain

Format: +SCAN=Param1,Param2,Param3,Param4,Param5,Param6

Description:

Param1	Index(1~8)
Param2	Address type(0~2) 0:LE shared address 1:LE random address 2:BR/EDR address
Param3	MAC address (12 Bytes ASCII)
Param4	RSSI(-255~0)
Param5	Length of Param6
Param6	broadcast data for LE devices

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Example
C<-S + SCAN=1,2,112233445566,-55,8,MY-BT401 C<-S + SCAN=2,2,778899AABBCC,-88,8,MY-BT201 C<-S + SCAN=3,2,DDEEFF001122,-99,8,MY-BT301

6.3 Successful pairing: +PAIRED

Command Explain
Format: +PAIRED=Param Description: The MAC address of the paired device (12 Bytes ASCII)
Example
C<-S +PAIRED=112233445566

6.4 SPP Status: +SPPSTAT

Command Explain
Format: +SPPSTAT=Param(0~3) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected

6.5 SPP Device Information: +SPPDEV

Command Explain
Format: +SPPDEV=Param Description: MAC address of the remote device connected by SPP (12 Bytes ASCII)

6.6 SPP Receive Data: +SPPDATA

Command Explain
Format: +SPPDATA=Param1,Param2 Description: Param1: effective data length Param2: valid data content (If Throughput Mode is enabled, only Param2 exists)

6.7 LE PERIPHERAL Status: +GATTSTAT

Command Explain
Format: +GATTSTAT=Param(0~3) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected

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6.8 GATT Device Information: +GATTDEV

Command Explain
Format: +GATTDEV=Param Description: The MAC address of the remote device connected to GATT (12 Bytes ASCII)

6.9 GATT Receive Data: +GATTDATA

Command Explain
Format: +GATTDATA=Param1,Param2 Description: Param1: effective data length Param2: valid data content (If Throughput Mode is enabled, only Param2 exists)

6.10 LE CENTRAL Status: +LESTAT

Command Explain
Format: +LESTAT=Param(0~3) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected

6.11 HID Status: +HIDSTAT

Command Explain
Format: +HIDSTAT=Param(0~3) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected

6.12 HID Mode: +HIDMODE

Command Explain

Format: +HIDMODE=Param(0~10)

Description:

0	HID key-value pattern
1	British keyboard
2	American keyboard
3	Turkish keyboard
4	Spanish keyboard
5	Portuguese keyboard
6	French keyboard
7	German keyboard
8	Italian keyboard
9	Czech keyboard
10	Japanese keyboard

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6.13 HID Send: +HIDSEND

Command Explain
Format: +HIDSEND Description: Indication of successful data transmission in HID mode

6.14 GATT Receive Data: +GATTDATA

Command Explain
Format: +GATTDATA=Param1,Param2 Description: Param1: effective data length Param2: valid data content
Example
C<-S AT+GATTDATA=5,12345

6.15 HFP Status: +HFPSTAT

Command Explain
Format: +HFPSTAT=Param(0~6) Description: 0: Not initialized 1: Not connected 2: Connected 3: Connected 4: Outgoing 5: Incoming call 6: Calling

6.16 HFP Device Info: +HFPDEV

Command Explain
Format: +HFPDEV=Param1,Param2 Description: Param1: The MAC address of the connected HFP device (12 Bytes ASCII) Param2: The name of the connected HFP device (UTF8)
Example
C<-S +HFPDEV=112233445566,iPhone

6.17 Incoming/Outgoing Numbers +HFPCID

Command Explain
Format: +HFPCID=Param Description: Phone number(1~25 Bytes ASCII)
Example
C<-S +HFPSTAT=5 +HFPCID=18695938878 +HFPCIE=Gella +HFPAUDIO=1

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6.18 Incoming/Outgoing Name +HFPCIE

Command Explain
Format: +HFPCIE=Param Description: Phone Name (UTF8)， Not all mobile phones support。

6.19 HFP Audio Status: +HFPAUDIO

Command Explain
Format: +HFPAUDIO=Param(0~1) Description: 0: HFP voice audio disconnected, audio input and output to mobile device 1: HFP voice audio is connected, audio input and output to the module

6.20 HFP Device Network Signal Strength: +HFPSIG

Command Explain
Format: +HFPSIG=Param(0~5) Description: The network signal strength of the mobile device

6.21 HFP Equipment Network Operators: +HFPNET

Command Explain
Format: +HFPNET=Param Description: The network operator of the mobile device (UTF8)

6.22 HFP Device Roaming Status: +HFPROAM

Command Explain
Format: +HFPROAM=Param(0~1) Description: 0: The mobile device is in a non-roaming state 1: The mobile device is in a roaming state

6.23 HFP Device Battery Level: +HFPBATT

Command Explain
Format: +HFPBATT=Param(0~5) Description: The battery level of the mobile device

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6.24 A2DP Status: +A2DPSTAT

Command Explain
Format: +A2DPSTAT=Param(0~4) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected 4: Playing

6.25 A2DP Device Info: +A2DPDEV

Command Explain
Format: +A2DPDEV=Param1,Param2 Description: Param1: The MAC address of the connected A2DP remote device (12 Bytes ASCII) Param2: The name of the connected A2DP remote device (UTF8)
Example

6.26 AVRCP Status: +AVRCPSTAT

Command Explain
Format: +AVRCPSTAT=Param(0~3) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected

6.27 Media Player Playback Status: +PLAYSTAT

Command Explain
Format: +PLAYSTAT=Param(0~4) Description: 0: Stop 1: Play 2: Pause 3: Fast forward 4: Rewind

6.28 Media Player Playing Progress: +TRACKSTAT

Command Explain
Format: +TRACKSTAT=Param1,Param2,Param3 Description: Param1: Media playback status, (0~4) Param2: The current music playing time, (Decimal ASCII), in milliseconds Param3: The total time of the current music, (Decimal ASCII), in milliseconds
Example
C->S AT+AVRCPCFG=7 C<-S +OK C<-S +TRACKSTAT=1,66000,368000 C<-S +TRACKSTAT=1,69000,368000 C<-S +TRACKSTAT=1,71000,368000

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6.29 Media Music Information: +TRACKINFO

Command Explain
Format: +TRACKINFO=Param1,Param2,Param3 Description: Param1:Title Param2: Author Param3: Album
Example
C<-S +TRACKINFO =My Love,Westlife,Coast To Coast

6.30 PBAP Status: +PBSTAT

Command Explain
Format: +PBSTAT=Param(0~4) Description: 0: Not initialized 1: Not connected 2: Connecting 3: Connected 4: Downloading

6.31 Phonebook: +PBCNT

Command Explain
Format: +PBCNT=Param(0~65535) Description: Mobile Phonebook

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