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Bluetooth Module Basic Command List

Send	Parameter	e.g	Return	Description	Availability
AT	No	AT	OK	Test Communication	EDPA, BC04-A, BC04-B
AT+BAUD?	1~9, A, B, C	AT+BAUD1	OK1200	Change Baud Rate	EDPA, BC04-A, BC04-B
AT+NAME?	-	AT+NnameElectrodragon	OKElectrodragon	Change Name	EDPA, BC04-A, BC04-B
AT+PIN?	-	AT+PIN3456	OKsetpin	Set pin password, 4 bytes	EDPA, BC04-A, BC04-B

Baud rate Parameter

- 1-----1200
- 2-----2400
- 3-----4800
- 4-----9600
- 5-----19200
- 6-----38400
- 7-----57600
- 8-----115200
- 9-----230400
- A-----460800
- B-----921600
- C-----1382400

P.S: when the baud rate changed, if it's not default 9600, you need to set correct baud rate for further settings or data communication. It's not recommended to use over 115200 Baud rate, system will be not stable due to the interference. If you fail to use when the baud rate set to over 115200, please use MCU which has frequency over 115200 to re-programme it and reset AT commands, etc.

BC04-B Advanced Command List**Downlink Command**

Command Name	Command	Response	Parameter
Check version	AT+VERSION	+VERSION=<Para1>	<Para1>: Firmware version number, the Bluetooth version number, the local HCI version, HCI amendments, LMP version number, LMP sub-version number
check help	AT+HELP	...	
Reset to default	AT+DEFAULT	OK	null
reset	AT+ RESET	OK	null
check/set device type	AT+COD AT+COD< Para1>,<Para2>	OK or error	<Para1>: Local device type (length must be 6 bytes) from the mode is in effect, the end retrieval <Para2>: Filtration equipment type effect in the main mode for filtering search to equipment (if you set 000,000 returns all search equipment) default: 001f00, 000000
check/set module SPP master/slave mode	AT+ROLE AT+ROLE< Para1>	OK or error	<Para1>: 0 --- from the device; 1 --- master; Default: 0 from equipment
check/set GIAC	AT+IAC< Para1>	OK or Error	<Para1>: The query access code, default value: 9e8b33 specific settings, see Appendix 2: query access code Description
check/set remote bluetooth device name	AT+RNAME< Para1>	OK or Error	<Para1>: remote Bluetooth device address
check/set inquiry mode	AT+INQM<Para1>,<Para2>,<Para3>	OK or Error	<Para1>: Query mode: 0: inquiry_mode_standard,1: inquiry_mode_rssi, 2: inquiry_mode_eir, Length: 1 byte, <Para2>: Up Bluetooth Device response, Length: 2 bytes, <Para3>: Query timeout, Timeout range :1-30(Converted into time :1.28-61.44 seconds), Length: 2 bytes, Default: 1,9,30 (16 hex)
check/set connection mode	AT+CMODE< Para1>	OK or Error	<Para1>: 0: specified Bluetooth address connected mode (specified Bluetooth address set by the BIND command) 1: Any Bluetooth address connection mode (not the BIND command set address the constraints), the default value:
check/set bluetooth address	AT+BIND<Para1>	OK or Error	<Para1>: Set binding Bluetooth address format: 11,22,33,44,55,66 Reply the Bluetooth address format: 11:22:33:44:55:66 Default: 00:00:00:00:00:00

clear memory address	AT+CLEAR	OK	Null
check/set UART MODE	AT+ UARTMODE<Para1>, <Para2>	OK or Error	<Para1>: Stop bit: 0:1 stop bit, 1:2 stop bit <Para2>: Parity: 0: no parity, 1: Odd, 2: Even parity, default value: 0,0
check local BT address	AT+LADDR	+LADDR=<Para1>	<Para1>: Local Bluetooth address, for example: 11:22:33:44:55:66
check BT module working status	AT+STATE	+STATE=<Para1>	Example
check/set Remote Bluetooth device automatically search	AT+ AUTOINQ<Para1>	Ok or Error	0=no, 1=yes
check remote bluetooth device	AT+INQ	Ok	null
cancel check remote bluetooth device	AT+INQC	Ok	null
check/set Whether to automatically connect to a remote Bluetooth device	AT+ AUTOCNN<Para1>	OK or Error	0=Not Auto, 1= Auto
Connect to remote bluetooth device	AT+CONNECT<Para1>	OK or Error	<Para1>: Set the remote bluetooth address format: 11,22,33,44,55,66 Reply Bluetooth address format: 11:22:33:44:55:66
check/set Page scan and inquiry scan parameters	AT+HPSCAN<Para1>,<Para2>, <Para3>,<Para4>	OK or Error	<Para1>: Query interval <Para2>: Query duration <Para3>: Paging time intervals <Para4>: Paging duration The above parameters are hexadecimal numbers. Default: 800,12,800,12
check/set Encrypt mode	AT+SENM<Para1>,<Para2>	OK or Error	<Para1>: Safe mode, the following values (1 byte): 0 - sec_mode0_off 1 - sec_mode1_non_secure 2 - sec_mode2_service 3 - sec_mode3_link 4 - sec_mode4_ssp <Para2>: Encryption mode, the following values (1 byte): 0 - hci_enc_mode_off 1 - hci_enc_mode_pt_to_pt 2 - hci_enc_mode_pt_to_pt_and_bcast Default: 0,0
Check/set low power Mode	AT+ LOWPOWER<Para1>	ok or error	0=not support, 1=support, default =1
check/set sniff energy save mode	AT+SNIFF<Para1>,<Para2>, <Para3>,<Para4>	ok or error	<Para1> - max time, <Para2> - min time, <Para3> - trial time, <Para4> - timeout time
check/set indication upward command	AT+ENABLEIND<Para1>	ok or error	0= close, 1= open, default 1
check Bluetooth pairing list	AT+LSP	LSP=<Para1>, <Para2>,<Para3> LSP=E	<Para1> : number (0-7) <Para2> : bluetooth address code <Para3> : name default feedback : LSP=E
Clear all bluetooth pairing list	AT+RESETPDL	Ok	-
clear selected bluetooth pairing record	AT+REMOVEPDL<Para1>	OK	<Para1> : number (0-7)
check/set linkloss checking time	AT+SUPERVISION<Para1>	Ok or error	<Para1> response time, unit in second (Hex), default 5

Uplink Command list

Command Name	Command	Response	Parameter
ready	+READY	-	-
inquiry status	+INQUIRING	-	-
inquiry pairing status	+PAIRABLE	-	-
connecting	+CONNECTING<Para1>	-	-
connected	+CONNECTED	-	-
connection fail	+CONNECTION FAILED	-	-
report remote bluetooth device name	+RNAME=<Para1>	-	<Para1> : report remote bluetooth name
report inquiry result	+HNQS start inquiry +HNQ=<Para1>,<Para2>, <Para3> device information +HNQE inquiry completed	-	<Para1> : bluetooth address format : 11:22:33:44:55:66 <Para2> : device type <Para3> : RSSI signal strength (normal is decimal) signal strengthness (default in decimal return 7fff when is not available)

SIMCOM SIM AT Commands

Basic, Voice and message

Send ↕	Parameter ↕	e.g ↕	Return ↕	Description ↕	Availability ↕
AT	-	AT	OK	Status Check	All
AT+GMM	-	-	SIMCOM_SIM900A	Check Module	All
AT+CSQ	-	-	+CSQ: 3,3	Signal Strength - 0=-113dBm; 1= -111dBm;2->30 -109 TO -53dBm; 31=-51dBm< ; 99= No Reception	All
ATD	phone number	ATD13725585994;	* OK - Success * Busy - Hang off after "OK"	Make Call	All
AT+CMGF	1 or 0	AT+CMGF=1	OK	sets text mode (0 sets Packet Data Mode)	All
AT+CSCS	-	-	AT+CSCS="GSM"	sets GSM-character text mode	All
AT+CMGS	Number and message	* AT+CMGS = "13725585994"(Enter) Send message after ">" and end up with ctrl+Z or send "1A" in hex if using uart	OK	Sending message	All
AT+COPS	-	-	+COPS: 0,0,"CHINA MOBILE"	Check the service provider	All
AT+CREG	-	AT+CREG?	+CREG: 0,1	Register Home Network	All
AT+CPIN	-	AT+CPIN?	+CPIN: READY	Sim card ready	All

- Response - get "ring" message when have incoming call