AT commands to initialize HC-05 into master mode

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **AT command** | **Explanation** | **Pre-requisite** | **AT command to set** | **Pre-requisite** |
| AT+ROLE? | QUERY ROLE1 => MASTER MODE0=> SLAVE MODE |  | AT+ROLE=1 (SET MASTER) |  |
| AT+CMODE? | 1 => PERMITS CONNECTION TO MULTIPLE ADDRESSES0=> PERMITS CONNECTION TO A SPECIFIC BLUETOOTH ADDRESS |  | AT+CMODE =1 (SET MASTER)AT+CMODE = 0 (SET SLAVE MODE) |  |
| AT=ORGL | SET TO ORIGINAL CONDITIONS |  |  |  |
| AT+INIT | INITIALISE SPP PROFILE |  |  |  |
| AT+BIND? | FIND WHICH BLUETOOTH ADDRESS HAS BEEN BOUND |  | AT+BIND=E45D,75,955C2c |  |
|  |  |  | AT+LINK=E45D,75,955C2c | HOLD KEY DOWN |
|  |  |  | AT+PAIR=E45D,75,955C2c,20 | HOLD KEY DOWN |
| **REMOVING / UNPAIRING** |  |  |  |  |
| AT+PMSAD=E45D,75,955C2c,20 | DELETE AUTHENTICATED BLUETOOTH PAIR LIST |  |  |  |
| AT+RMAAD | DELETE ALL PAIRED BT DEVICES |  |  |  |

**Appendix 1**：**Introduction of AT command error code**

The form of error ---- ERROR:(error\_code)

error\_code(Hexadecimal) Note

0 AT command error

1 Default result

2 PSKEY write error

3 Too long length of device name (more than 32

bytes).

4 No device name

5 Bluetooth address: NAP is too long.

6 Bluetooth address: UAP is too long.

7 Bluetooth address: LAP is too long.

8 No PIO number’s mask

9 No PIO number

A No Bluetooth devices.

B Too length of devices

C No inquire access code

D Too long length of inquire access code

E Invalid inquire access code

F The length of passkey is 0.

10 Too long length of passkey (more than 16 bytes)

11 Invalid module role

12 Invalid baud rate

13 Invalid stop bit

14 Invalid parity bit

15 Authentication device is not at the pair list.

16 SPP lib hasn’t been initialized.

17 SPP lib has been repeated initialization.

18 Invalid inquire mode

19 Too long inquire time

1A No Bluetooth address

1B Invalid safe mode

1C Invalid encryption mode