

MLT-BT05 4.0 Bluetooth module

Supports micro-airsync communication, iOS and Android app communication, mast-slave modes and IO control

AT Instruction set

V3.0

MLT-BT05 4.0 Bluetooth Serial Communication Module

AT Directive

Users can communicate with the module using TX, RX lines at various baud rates.

Supported rates: 9600, 19200,38400,57600,115200. The default is 9600bps .

Detailed instructions

MLT-BT05 4.0 Bluetooth module Command set

(Note : AT commands require carriage return and line feed; AT commands must be issued before connecting. Once connected module is in data transmission mode.)

(AT commands ARE case sensitive; end lines with \r\n)

1. set/query master/slave mode:

instruction	response	parameter
AT+ROLE<Param>	+ROLE=<Param> OK	Param : (0-4) 0 ---slave mode? 1 ---master mode? 2 ---sensor mode 3 ---iBeacon mode 4 ---WeChat mode default : 0
AT+ROLE	+ROLE=<Param>	

2. get software version number:

instruction	response	parameter
AT+VERSION	+VERSION=<Param>	Param : MLT-BT05-V2.1

3. get module Bluetooth address:

instruction	response	parameter
AT+LADDR	+LADDR =<Param>	Param: MAC address

4. set/query device name:

instruction	response	parameter
AT+NAME<Param>	+NAME=<Param> OK	Param : module Bluetooth name Default: MLT-BT05 longest : 18 byte
AT+NAME	+NAME=<Param>	

5. set/query match code :

instruction	response	parameter
AT+PIN<Param>	+PIN=<Param> OK	Param : 6 byte bit pairing password default : " 123456"
AT+PIN	+PIN=<Param>	

6. set/query broadcast interval:

instruction	response	parameter
AT+ADVI<Param>	+ADVI=<Param> OK	Param : (0-6) 0 ---100ms 1 ---500ms 2 ---7500ms 3 ---1000ms 4 ---2000ms 5 ---4000ms 6 ---8000ms default : 0
AT+ADVI	+ADVI=<Param>	

7. set/query module authentication job type:

instruction	response	parameter
AT+TYPE<Param>	+TYPE=<Param> OK	Param : (0-2) 0---no password 1---password pairing 2---password pairing and binding default : 0
AT+TYPE	+TYPE=<Param>	

8. set/query- serial baud rate:

instruction	response	parameter
AT+BAUD<Param>	+BAUD=<Param> OK	Param : (0-4) Values (decimal): 0 ---115200 1 ---57600 2 ---38400 3 ---19200 4 --- 9600 default : 0
AT+BAUD	+BAUD=<Param>	

9. set/query-Service UUID :

instruction	response	parameter
AT+UUID<Param>	+UUID=<Param> OK	Param: 0x0001~0xFFFFE default : 0xFFE0
AT+UUID	+UUID=<Param>	

10. set/query-Characteristic :

instruction	response	parameter
AT+CHAR<Param>	+CHAR=<Param> OK	Param:0x0001~0xFFFFE default : 0xFFE1
AT+CHAR	+CHAR=<Param>	

11. set/query-iBeacon UUID :

instruction	response	parameter
AT+IBSUUID<Param>	+IBSUUID=<Param> OK	Param : FDA50693A4E24FB1AFCFC6EB07647825
AT+IBSUUID	+IBSUUID=<Param>	

12. set/query-iBeacon Major :

instruction	response	parameter
AT+MAJOR<Param>	+MAJOR=<Param> OK	Param : 0x0001~0xFFFFE default : 0x0007
AT+MAJOR	+MAJOR=<Param>	

13. set/query-iBeacon Minor :

instruction	response	parameter
AT+MINOR<Param>	+MINOR=<Param> OK	Param: 0x0001~0xFFFFE default : 0x000A
AT+MINOR	+MINOR=<Param>	

14. software restart (reboot after 500mS):

instruction	response	parameter
AT+RESET	OK	no

15. enter low power mode (can be searched after entering):

instruction	response	parameter
AT+SLEEP	+SLEEP:OK	no

16. search for Bluetooth devices (master mode instructions):

instruction	response	parameter
AT+INQ<Param>	OK	Param : 1-0 1: start scanning 0: stop scanning

17. connect the remote device (master mode command):

instruction	response	parameter
AT+CONN<Param>	connection information	Param : 0-7

18. get host scan to slave MAC address (master mode command):

instruction	response	parameter
AT+RSLV< Param >	+RSLV=MACaddress OK	Param : (0-7)

19. bind device (master mode instruction) :

instruction	response	parameter
AT+BAND<Param>	+BAND=<Param> OK	Param : MAC address
AT+BAND	+BAND=<Param>	

20. unbind (main mode instruction) :

instruction	response	parameter
AT+CLRBAND	OK	no

21. get the number of slaves to be scanned (main mode command) :

instruction	response	parameter
AT+GETDCN<Param>	+GETDCN=<Param> OK	Param : (1-8)

22. disconnect (main mode command) :

instruction	response	parameter
AT+DISC	OK	no

23. disconnet (master mode command) :

instruction	response	parameter
AT+GETSTAT	+GETSTAT=<Param>	Param : (0-1) 0---not connected 1---connected

24. set/query -micro letter H5 factory server communication:

instruction	response	parameter
AT+AT_WXSWH<Param>	+MINOR=<Param> OK	Param : (0-1) 0 : H5 communication 1 : factory server Default: 0
AT+MINOR	+MINOR=<Param>	