



FSC-BT2064 General AT Com- mand Set

Release 2.0

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Chapter 1

Description

This Guide is intended for engineers developing the FSC-BT2064 series of Bluetooth modules.

1.1 Module default configuration

Name	FSC-BT2064
LE-Name	FSC-BT2064-LE
PIN Code	0000
Secure Simple Pairing Mode	Off
Service UUID	FFF0
Write UUID	FFF2
Notify UUID	FFF1
UART Baudrate	115200/8/N/1

Chapter 2

AT Command Description

2.1 Description

Applicable to the entire document

- {} : Including content in {...} is optional
- << : **COMMAND** sent by the host to the module
- >> : Module responds to the host' s **RESPONSE/EVENT**

2.2 Command Format

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

- All instructions start with **AT**, and end with **<CR><LF>**
- **<CR>** represents carriage return, corresponding to HEX as 0x0D
- **<LF>** represents a line break, corresponding to HEX as 0x0A
- If the instruction contains parameters, the parameters should be separated by **=**
- If the instruction contains multiple parameters, the parameters should be separated by **,**
- If the instruction returns a response, the response starts with **<CR><LF>**, ends with **<CR><LF>**
- The module should always return the result of instruction execution (success returns **OK**, failure returns **ERROR**)

Example: Read module Bluetooth name

Send: <<AT+NAME<CR><LF>

Response: >><CR><LF>+NAME=FSC-BT2064<CR><LF>

Response: >><CR><LF>OK<CR><LF>

Write unsupported Baud rate

Send: <<AT+BAUD=0<CR><LF>

Response: >><CR><LF>ERROR<CR><LF>

2.3 Event Format

<CR><LF>+Indication{=Param1{,Param2{,Param3...}}}<CR><LF>

- All events start with <CR><LF> and end with <CR><LF>
- If an event contains parameters, they shall follow the “=” sign
- If an event contains multiple parameters, they shall be separated by “,”

Example: Returns current SPP connection status in command mode

Response: >><CR><LF>+SPPSTAT=3<CR><LF>

Chapter 3

Commands Table

3.1 General Commands

3.1.1 AT+HELP - Query firmware functions and command descriptions

Command	AT+HELP
Response	<MODULE DEFAULT PARAMETER> <COMMAND SUMMARY: DESCRIPTION: PROFILE CATEGORY>
Description	Use the help command to get basic summary information

3.1.2 AT - UART Communication Test

Command	AT
Response	OK
Description	Test UART communication between host and module upon power-up or Baud rate change

Example:

<< AT

>> OK

3.1.3 AT+REBOOT - Software Reset

Command	AT+REBOOT
Response	OK
Description	The module will perform a reset

Example:

<< AT+REBOOT

>> OK

3.1.4 AT+RESTORE - Restore Factory Settings

Command	AT+RESTORE
Response	OK
Description	The module will restore to factory default settings

Example:

<< AT+RESTORE

>> OK

3.1.5 AT+BTEN - Read/Write Current Bluetooth Operation Mode

Command	AT+BTEN{=Param}
Param	Enable Bluetooth (0/1, default: 0) 0: Disconnect all connections, disable discoverable/connectable mode 1: Enable discoverable/connectable mode
Response	+BTEN=Param
Description	Read/write current Bluetooth operation mode

3.1.6 AT+NAME - Read/Write BR/EDR Bluetooth Name

Command	AT+NAME{=Param{,Param1}}
Param	BR/EDR Bluetooth name (1~29 Bytes ASCII)
Param1	Enable MAC address suffix (0~2, default: 0) 0: Disable suffix 1: Enable suffix "XXXX" (last 4 bytes of MAC address) 2: Enable suffix "XXXXXX" (last 6 bytes of MAC address)
Response	+NAME=Param
Param	Bluetooth name
Description	Set the BR/EDR Bluetooth name; use sub-parameters to display the address suffix

Example:

Set BR/EDR Bluetooth name and disable suffix

```
<< AT+NAME=ABC,0
```

```
>> OK
```

Set BR/EDR Bluetooth name to "ABC" and automatically add address suffix

```
<< AT+NAME=ABC-,1
```

```
>> OK
```

Read BR/EDR Bluetooth name

```
<< AT+NAME
```

```
>> +NAME=ABC-XXXX
```

```
>> OK
```

3.1.7 AT+LENNAME - Read/Write BLE Bluetooth Name

Command	AT+LENNAME{=Param{,Param1}}
Param	BLE Bluetooth name (1~29 Bytes ASCII)
Param1	Enable MAC address suffix (0~2, default: 0) 0: Disable suffix 1: Enable suffix “-XXXX” (last 4 bytes of MAC address) 2: Enable suffix “-XXXXXX” (last 6 bytes of MAC address)
Response	+LENNAME=Param
Param	Bluetooth name
Description	Set the BLE Bluetooth name, use sub-parameters to display the address suffix

3.1.8 AT+PIN - Read/Write Pairing PIN Code

Command	AT+PIN{=Param}
Param	Pairing PIN code (4~15 Bytes ASCII, default: 0000)
Response	+PIN=Param
Description	The pairing PIN code is valid when +SSP=0

Example:

Query pairing PIN code

```
<< AT+PIN
>> +PIN=0000
>> OK
```

Modify pairing PIN code to 1234

```
<< AT+PIN=1234
>> OK
```

3.1.9 AT+PLIST - Read/Clear Pairing Records

Command	AT+PLIST{=Param}
Param	(0 / 1~8) (0) Clear all pairing records (1~8) Clear pairing record at specified index
Response1	+PLIST=Param, Param1
Param	(1~8) Pairing device index
Param1	(MAC) MAC address of paired device
Response2	+PLIST= Pairing record query completed
Description	If a parameter is provided, delete the corresponding pairing information; otherwise, only read the pairing list

Example: Read module pairing records

```
<< AT+PLIST
>> +PLIST=1,1C5CF226D773
      +PLIST=2,A0BC30075421
>> OK
```

Example: Clear all module pairing records

```
<< AT+PLIST=0
>> OK
```

3.1.10 AT+BAUD - Read/Write UART Baud Rate

Command	AT+BAUD{=Param}
Param	Baud rate (9600/19200/38400/57600/115200/ 230400/460800/921600/256000/512000/1000000, default: 115200)
Response	+BAUD=Param
Param	Baud rate
Description	The module will switch the Baud rate after receiving this command
Note	After sending the Baud rate setting command, please switch to the set UART Baud rate before communicating with the module

Example:

Read Baud rate

<< AT+BAUD

>> +BAUD=115200

>> OK

Set Baud rate

<< AT+BAUD=230400

>> OK

3.1.11 AT+VER - Read Firmware Version

Command	AT+VER
Response	+VER{=Param,Param1}
Param	Firmware version
Param1	Module model

Example:

```
<< AT+VER
>> +VER=8.0.0,FSC-BT2064
>> OK
```

3.1.12 AT+ADDR - Read BR/EDR Bluetooth MAC Address

Command	AT+ADDR
Response	+ADDR=Param
Param	Module' s BR/EDR Bluetooth MAC address (12 Bytes ASCII)

Example:

```
<< AT+ADDR
>> +ADDR=DC0D30010203
>> OK
```

3.1.13 AT+LEADDR - Read BLE Bluetooth MAC Address

Command	AT+LEADDR
Response	+LEADDR=Param
Param	Module' s BLE Bluetooth MAC address (12 Bytes ASCII)

3.1.14 AT+COD - Read/Write Device Class of Device (COD)

Command	AT+COD=Param
Param	Device class (6 bytes ASCII, default: 240404 Handsfree device)
Response	+COD=Param
Note	After modifying COD, the module needs to be restarted to reset the COD

For related configuration, refer to [COD](#).

3.1.15 AT+TPMODE - Enable/Disable Transparent Transmission Mode

Command	AT+TPMODE{=Param}
Param	Mode (0~1, default: 0) 0: Command mode 1: Transparent transmission mode
Response	+TPMODE=Param
Description	When connected under SPP/GATT protocol and transparent transmission mode is enabled, AT commands will be disabled, and every byte received through UART will be sent to the remote end

3.1.16 AT+FLOWCTL - Enable/Disable UART Flow Control

Command	AT+FLOWCTL{=Param}
Param	Param (0~1, default: 0) 0: Disable flow control 1: Enable flow control
Response	+FLOWCTL=Param
Description	Enable/disable UART flow control

3.1.17 AT+SSP - Enable/Disable Simple Pairing

Command	AT+SSP{=Param}
Param	Mode (0~1, default: 0) 0: Disable SSP 1: Enable SSP
Response	+SSP=Param
Note	Takes effect after restart

3.1.18 AT+MODE - Read/Write Bluetooth PROFILE

Command	AT+MODE{=Param}
Param	Pairing mode (0~4, default: 4) (0) NONE PROFILE (1) SPP PROFILE (2) HID PROFILE (3) BLE PROFILE (4) ALL PROFILE
Response	+MODE=Param

3.1.19 AT+AUTOCONN - Set Bluetooth Power-On Reconnection

Command	AT+AUTOCONN{=Param}
Param	0: Disable automatic reconnection 1: Enable automatic reconnection
Response	+AUTOCONN=Param
Description	After power-on, the module will attempt to establish connections with devices in the pairing list according to the set PROFILE

3.1.20 AT+PIOCFG - Enable/Disable IO Port Control Module

Command	AT+PIOCFG{=Param,Param1}
Param	0: Disable command/transmission mode switching function 1: Enable command/transmission mode switching function
Param1	0: Disable Bluetooth disconnection function 1: Enable Bluetooth disconnection function
Response	+PIOCFG=Param
Description	Use pins to control transmission mode and connection status
Note	Changes take effect after restart

3.1.21 AT+DSCA - Disconnect All Connections

Command	AT+DSCA
Description	The module disconnects all Bluetooth connections with remote devices and is used in command mode

3.1.22 AT+SCAN - Search for Nearby Devices

Command	AT+SCAN{=Param{,Param1}}
Param	Scanning mode (0~2) 0: Stop scanning 1: Scan for nearby BR/EDR devices 2: Scan for nearby BLE devices
Param1	(1~48) Scanning time. Unit: 1.28s, default: 12.8s
Description	For format description, refer to: +SCAN - Scan Results

3.1.23 AT+SECURITY - Enable/Disable Security Verification

Command	AT+SECURITY{=Param}
Param	Mode (0~1, default: 0) 0: Security verification not enabled 1: Enable security verification
Response	+SECURITY=Param
Description	Enable/disable security verification
Note	Takes effect after restart

Example:

Set to enable security verification

```
<< AT+SECURITY=1
```

```
>> OK
```

Get security verification information

```
<< AT+SECURITY
```

```
>> +SECURITY=1
```

```
OK
```

3.1.24 AT+TXPOWER - Read/Write Transmit Power

Command	AT+TXPOWER{=Param}
Param	Transmit power (0~6, default: 3) 0: -12dBm 1: -8dBm 2: -4dBm 3: 0dBm 4: 4dBm 5: 8dBm 6: 10dBm
Response	+TXPOWER=Param
Param	Transmit power
Description	Modify the transmit power; the setting takes effect after restart

Example:

Read transmit power

```
<< AT+TXPOWER
```

```
>> +TXPOWER=3
```

```
>> OK
```

Set transmit power to 10dBm

```
<< AT+TXPOWER=6
```

```
>> OK
```

3.1.25 AT+UARTCFG - Read/Write UART Configuration

Command	AT+UARTCFG{=Param}
Param	Configuration (0~5, default: 0) bit0: 0 - 1 stop bit 1 - 2 stop bits bit2~bit1: 00 - None 01 - Odd 10 - Even
Response	+UARTCFG=Param
Param	Configuration (0~5)
Description	Modify UART configuration (stop bit and parity bit)

Example:

Get current UART configuration

```
<< AT+UARTCFG=0
```

```
>> OK
```

Set UART to odd parity

```
<< AT+UARTCFG=2
```

```
>> OK
```

3.1.26 AT+LINKCFG - Auto Search Link Configuration

Command	AT+LINKCFG{=Param}
Param	Configuration (0~2, default: 0) 0: Disable auto search link 1: SPP auto search link 2: BLE auto search link
Description	If this command is configured, the module will automatically search for links according to the configuration

3.1.27 AT+RSSICFG - Read/Write RSSI Configuration

Command	AT+RSSICFG{=Param{,Param1}}
Param	High RSSI value
Param1	Low RSSI value
Description	When the signal strength is greater than Param, PIN34 is set low When the signal strength is less than Param1, PIN34 is set high When the signal strength is between Param and Param1, the level remains unchanged

Example: Configure -30~-60 signal strength indication

```
<< AT+RSSICFG=30,60
```

```
>> OK
```

3.2 SPP Commands

3.2.1 AT+SPPSTAT - Read SPP Status

Command	AT+SPPSTAT
Response	+SPPSTAT=Param
Description	For format description, refer to: +SPPSTAT - SPP Status

3.2.2 AT+SPPCFG - Read/Write SPP Configuration

Command	AT+SPPCFG{=Param}
Param	Configuration (0~1, default: 0) 0: Disable SPP dynamic registration 1: Enable SPP dynamic registration
Response	+SPPCFG=Param
Description	After enabling dynamic registration, the module will register the SPP service during connection Deregister the SPP service when disconnected

3.2.3 AT+SPPCONN - Establish SPP Connection

Command	AT+SPPCONN{=Param}
Param	Target device MAC address (12 Bytes ASCII)

Example: Initiate a connection to the Bluetooth device with address 112233445566

```
<< AT+SPPCONN=112233445566
```

```
>> OK
```

3.2.4 AT+SPPDISC - Disconnect SPP Connection

Command	AT+SPPDISC
Description	Disconnect the current SPP connection with the remote device

3.2.5 AT+SPPSEND - Send Data via SPP

Command	AT+SPPSEND{=Param[,Param1]}
Param	Payload length (1~236)
Param1	Payload (1~236 Bytes UTF8)
Description	This command will be disabled if transparent transmission mode is enabled

Example: Send data “1234567890” to the remote device via SPP

```
<< AT+SPPSEND=10,1234567890
```

```
>> OK
```

3.3 GATT Commands

3.3.1 AT+GATTSTAT - Read GATT Status

Command	AT+GATTSTAT
Response	+GATTSTAT=Param
Description	For format description, refer to: +GATTSTAT - Connection Status Report

3.3.2 AT+ADVADDR - Enable/Disable Broadcast Address

Command	AT+ADVADDR{=Param}
Param	Mode (0~1, default: 1) 0: Disable Broadcast address 1: Enable Broadcast address
Response	+ADVADDR=Param
Description	Enable/disable Broadcast address

3.3.3 AT+IBEACON - Enable/Disable iBeacon Broadcast

Command	AT+IBEACON{=Param}
Param	Mode (0~1, default: 0) 0: Disable iBeacon Broadcast 1: Enable iBeacon Broadcast
Response	+IBEACON=Param
Description	Enable/disable iBeacon Broadcast

3.3.4 AT+ADVDATA - Read/Write BLE Broadcast Data with Tag 0xFF

Command	AT+ADVDATA{=Param}
Param	Vendor-customized Broadcast data (data length not exceeding 26)
Response	+ADVDATA=Param
Param	Broadcast data with tag 0xFF
Description	The tag of vendor-customized Broadcast data is 0xFF
Note	To enable the module to broadcast customized data, set AT+IBEACON=1 first, then configure the customized Broadcast data

Example:

Query the content of vendor-customized Broadcast data; \x represents hexadecimal data

```
<< AT+ADVDATA
```

```
>> +ADVDATA=\x03\x01\x02
```

>> OK

Set vendor-customized Broadcast data; \x represents hexadecimal data

<< AT+ADVDATA=\x03\x01\x02

>> OK

3.3.5 AT+ADBLE - Enable/Disable AndroidBLE

Command	AT+ADBLE{=Param}
Param	Mode (0~1, default: 1) 0: Disable AndroidBLE 1: Enable AndroidBLE
Response	+ADBLE=Param
Description	When enabled, SPP and BLE will have two different addresses When disabled, SPP and BLE will share one address

3.3.6 AT+UIDCFG - Read/Write UUID

Command	AT+UIDCFG{=Param{,Param1}{,Param2}}
Param	Service UUID (default: 0000)
Param1	Write UUID (default: 0000)
Param2	Notify UUID (default: 0000)
Response	+UIDCFG=Param,Param1,Param2
Description	Customize the UUID for data transmission; supports 32-bit/128-bit UUID. When using default parameters: service UUID = 0xFFF0 write UUID = 0xFFF2 notify UUID = 0xFFF1

3.3.7 AT+GATTSEND - Send Data via GATT

Command	AT+GATTSEND{=Param{,Param1}}
Param	Payload length (1~236)
Param1	Payload (1~236 Bytes UTF8)
Description	This command will be disabled if transparent transmission mode is enabled

Example: Send data “1234567890” to the remote device via GATT

<< AT+GATTSEND=10,1234567890

>> OK

3.3.8 AT+LESTAT - Read LE Status

Command	AT+LESTAT
Response	+LESTAT=Param
Description	For format description, refer to: +LESTAT - Connection Status Report

3.3.9 AT+LECCONN - Initiate Connection to Specified Address

Command	AT+LECCONN{=Param{,Param1}{,Param2}{,Param3}}
Param	12-byte device address + 1-byte address type
Param1	Communication service UUID
Param2	Communication write permission characteristic UUID
Param3	Communication notification permission characteristic UUID
Response	OK
Description	Initiate a connection to the specified device. The parameter consists of 12 bytes (device address) and 1 byte (address type). Generally, the address type is “0” or “1”. How to obtain the address type: Use the second parameter returned by AT+SCAN, for example: +SCAN=0,0,DC0D30001ED4,-65,10,FSC-BT946 Connection command: AT+LECCONN=DC0D30001ED40

Example:

Connect to the specified device, 0 is the address type

```
<< AT+LECCONN=DC0D3000039E0
```

```
>> OK
```

Initiate a connection to the specified address, using FFF0, FFF2, FFF1 for communication

```
<< AT+LECCONN=DC0D3000039E0,FFF0,FFF2,FFF1
```

```
>> OK
```

3.3.10 AT+LESEND - Send Data to Remote Device

Command	AT+LESEND=Param1,Param2
Param1	Payload length (1~236)
Param2	Payload (1~236 Bytes UTF8)
Response	OK
Description	This command will be disabled if transparent transmission mode is enabled

Example:

Send data “1234567890” to the remote BLE device

```
<< AT+LESEND=10,1234567890
```

```
>> OK
```

3.4 HID Commands

3.4.1 AT+HIDSTAT - Read HID Status

Command	AT+HIDSTAT
Response	+HIDATAT=Param
Description	For format description, refer to: +HIDSTAT - HID Status

3.4.2 AT+HIDCONN - Establish HID Connection

Command	AT+HIDCONN{=Param}
Param	Target device MAC address (12 Bytes ASCII)

3.4.3 AT+HIDDISC - Disconnect HID Connection

Command	AT+HIDDISC
Description	Disconnect the current HID connection with the remote device

3.4.4 AT+HIDOSK - Show/Hide Keyboard

Command	AT+HIDOSK
Description	Show/hide keyboard (iOS only)

3.4.5 AT+HIDMODE - Read/Write HID Mode

Command	AT+HIDMODE{=Param}
Param	HID keyboard input mode (0~1), default 1 (0) HEX key code (1) ASCII key code (English)
Note	The module can support various keyboard languages through specific firmware, such as: TURKEY SPAIN PORTUGAL FRANCE GERMANY ITALY CZECH JAPAN

3.4.6 AT+HIDDLY - Read/Write HID Transmission Interval

Command	AT+HIDDLY{=Param}
Param	HID report period in millisecond, default 10 ms

3.4.7 AT+HIDSEND - Send Data via HID

Command	AT+HIDSEND{=Param{,Param1}}
Param	Report length
Param1	Report payload
Note	For special key code: 0x0D -> ENTER 0x08 -> BACKSPACE 0x09 -> TAB 0x20 -> SPACE
Description	This command will be disabled if transparent transmission mode is enabled

Example: Send character 'A' to the remote device (on AT+HIDMODE=1)

>> AT+HIDSEND=1,A

<< OK

Example: Send character 'A' to the remote device (on AT+HIDMODE=0)

<< AT+HIDSEND=4, xA1 x01 x00 x04

>> OK

Note: Data is in hex format; the corresponding actual data is as follows:

41 54 2B 48 49 44 53 45 4E 44 3D 34 2C A1 01 00 04 0d 0a

Where:

A1 : report start

01 : page id 1

00 : modifier

04 : key code

The module will automatically send the key release signal

Chapter 4

Notification List

4.1 +SPPSTAT - SPP Status

Format	+SPPSTAT=Param
Param	(0) Unsupported (1) Standby (2) Connecting (3) Connected

4.2 +SCAN - Scan Results

Format1	+SCAN={ : Start scanning
Format2	+SCAN =Param,Param1,Param2,Param3,Param4,Param5
Param	List index
Param1	Address type (1 byte)
Param2	Address (12 bytes)
Param3	RSSI
Param4	Device name length
Param5	Device name
Format3	+SCAN=} : Stop scanning

Example:

Search for devices

```
<< AT+SCAN=1
```

```
>> +SCAN={
```

```
>> +SCAN=0,1,70CFC9A98840,-43,24,LE-Bose QuietControl 30
```

```
>> +SCAN=1,1,DC0D30001ED4,-65,10,WEWQ-45AE
```

```
>> +SCAN=}
```

4.3 +GATTSTAT - Connection Status Report

Indication	+GATTSTAT=Param
Param	(0) Unsupported (1) Standby (2) Connecting (3) Connected
Description	In command mode, when the module's connection status changes, it is actively reported via +GATTSTAT

Example:

Connection successful

```
>> +GATTSTAT=3
```

4.4 +LESTAT - Connection Status Report

Indication	+LESTAT=Param
Param	(0) Unsupported (1) Standby (2) Connecting (3) Connected
Description	In command mode, when the module's connection status changes, it is actively reported via +LESTAT

Example:

Connection successful

>> +LESTAT=3

4.5 +HIDSTAT - HID Status

Format	+HIDSTAT=Param
Param	(0) Unsupported (1) Standby (2) Connecting (3) Connected

Chapter 5

Contact Information

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Chapter 6

Appendix

6.1 PDF Download

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