



FEASYCOM

FSC-BW226

Programming User Guide

Version 2.2



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Revision History

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1.0	2017/6/15	First Release	Jerry
1.4	2017/8/17	Add commands Add indications	Younger
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1. Introduction

This specification presents design guidelines for software engineers that use FSC-BW226 series modules for Bluetooth and Wi-Fi connectivity requirements.

1.1 Terms

Throughout this specification:

- {} : Content between {...} is optional
- << : Content behind << represents a *COMMAND* sent from Host to Module
- >> : Content behind >> represents a *RESPONSE* sent from Module to Host

1.2 Hardware Interface

- GPIO
- PWM
- UART
- SPI Master
- I2C Master/Slave
- Analog Input/Output

1.3 Supported Bluetooth Profile

- SPP (Serial Port Profile)
- GATT Server (Generic Attribute Profile)
- GATT Client (Generic Attribute Profile)
- HID Keyboard (Human Interface Device Profile)

1.4 Supported Wi-Fi Protocol

- TCP (Transmission Control Protocol)
- UDP (User Datagram Protocol)
- HTTP (Hypertext Transfer Protocol)

1.5 Command Format

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

- All commands start with "AT", end with <CR><LF>
- <CR> stands 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 parameters, 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

e.g.

1. Read the BR/EDR local name of module

```
<< AT+NAME
>> +NAME=Feasycom
>> OK
```

2. Write a baudrate which is not supported

```
<< AT+BAUD=0
>> ERROR
```

1.6 Indication Format

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

- All indications start with <CR><LF>, end with <CR><LF>
- If indication has parameter, parameter keep behind "="
- If indication has multiple parameters, parameter must be separated by ";"

e.g.

1. Device launching and connecting to remote AP automatically

```
>> +DEVSTAT=1
>> +RAPSTAT=2
```

1.7 Module Default Settings

Bluetooth Default Settings	
Local Name (BR/EDR/LE)	BW226
Pin Code	0000
Secure Simple Pairing Mode	OFF

Wi-Fi Default Settings	
Wi-Fi Mode	AP Mode
Local AP SSID	BW226
Local AP Password	12345678
Local AP IP Address	192.168.1.1

UART Default Settings	
Baudrate	115200bps
Data Bits	8
Parity	None
Stop Bits	1

2. Command Table

2.1 General Commands

2.1.1 UART Communication Test

Format: AT
Response: OK
Description: Test the UART communication between HOST and Module after power on, baudrate changed, etc.
Example: UART communication test << AT >> OK

2.1.2 Read Firmware Version

Format: AT+VER
Response: +VER=Param Param: Firmware version (ASCII)
Example: Read the firmware version of module << AT+VER >> +VER=1.0.1, FSC-BW226 >> OK

2.1.3 Read/Write UART Baudrate

Format: AT+BAUD{=Param} Param: Baudrate (9600/19200/38400/57600/115200/230400/256000/460800/512000/921600, default:115200)
--

Response: +BAUD=Param
Description: The baudrate of module will be changed immediately after received this command

2.1.4 Turn On/Off Throughput Mode

Format: AT+TPMODE{=Param} Param: Throughput mode (0/1, default:0) (0) Turn Off (1) Turn On
Response: +TPMODE=Param
Description: When connected and throughput mode is on, the AT command will be de-active, every byte received via physical UART will be sent to air, vice visa
Example: Read current throughput mode <pre><< AT+TPMODE >> +TPMODE=1 >> OK</pre> Example: Turn off throughput mode <pre><< AT+TPMODE=0 >> OK</pre>

2.1.5 Turn On/Off Low Power Mode

Format: AT+LPM{=Param} Param: Low Power Mode (0/1, default:0) (0) Turn Off (1) Turn On
Response: +LPM=Param
Description: Low Power Mode configuration would be checked by the Power Manager of module when booting

Example: Read current Low Power Mode

```
<< AT+LPM
>> +LPM=1
>> OK
```

Example: Turn off Low Power Mode

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

2.1.6 Scan Nearby Devices

Format: AT+SCAN =Param1{, Param2{, Param3}}

Param1:(0~3)

(0) Stop scan

(1~4) Reserved for Bluetooth features

(5) Scan nearby AP devices

Param2: Optional, scan period(1~48). unit:1.28s, default:12.8s

Param3: Optional, name filter(1~25 Bytes ASCII) . Filter scan results with name if set

Description: Refer to Chapter 3 for format description of scan result

2.1.7 Read Module States

Format: AT+STAT

Response: +STAT=Param1, Param2, Param3, Param4, Param5, Param6

Param1: DEVSTAT

Param2: RAPSTAT

Param3: TCPSTAT

Param4: UDPSTAT

Param5: GATTSTAT

Param6: SPPSTAT

Description: Refer to chapter 3 for state description, state may have different meanings according to profile selection

2.1.8 Close All Connections

Format: AT+CLOSE

Description: Module release all connections with remote device

2.1.9 Soft Reboot

Format: AT+REBOOT

Description: Module release all connections with remote device then reboot

2.1.10 Restore Factory Settings

Format: AT+RESTORE

Description: Module restore all factory settings then reboot

2.2 Bluetooth Commands

2.2.1 Read BR/EDR MAC Address

Format: AT+ADDR

Response: +ADDR=Param

Param: The BR/EDR MAC address of module (12 Bytes ASCII)

Example: Read The BR/EDR MAC address of module

<< AT+ADDR

>> +ADDR=DC0D30123456

>> OK

2.2.2 Read BLE MAC Address

Format: AT+LEADDR
Response: +LEADDR=Param Param: The LE MAC address of module(12 Bytes ASCII)

2.2.3 Read/Write BR/EDR/BLE Local Name

Format: AT+NAME {=Param1{, Param2}} Param1: BR/EDR/BLE local name (1~31 Bytes ASCII, default: BW226) Param2: MAC address suffix (0/1, default:0) (0) Disable suffix (1) Enable suffix "-XXXX" (lower 4 bytes of MAC address) after local name
Response: +NAME=Param
Description: Write local name if parameter existence, otherwise read current local name
Example: Read current BR/EDR/BLE local name << AT+NAME >> +NAME=Feasycom >> OK Example: Change The BR/EDR/BLE local name of module to "ABC" << AT+NAME=ABC >> OK Example: Change The BR/EDR/BLE local name of module to "ABC" and enable suffix << AT+NAME=ABC,1 >> OK

2.2.4 Read/Write Pin Code

Format: AT+PIN{=Param} Param: Pin code (4~15 Bytes ASCII, default:0000)
Response: +PIN=Param

Example: Read The pin code of module

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

Example: Change The pin code of module to “12345678”

```
<< AT+PIN=12345678
>> OK
```

2.2.5 Turn On/Off Secure Simple Pairing

Format: AT+SSP{=Param}

Param: Simple pairing (0/1, default:0)

(0) Turn off
(1) Turn on

Response: +SSP=Param

Description: Pin code input will be bypassed if simple pairing is on in pairing procedure

2.2.6 Read/Write Class Of Device

Format: AT+COD{=Param}

Param: Class of device (6 bytes ASCII, default:040680 Printer device)

Response: +COD=Param

2.2.7 Read/Clear Paired Record

Format: AT+PLIST{=Param}

Param:(0/(1~8)/12 Bytes MAC address)

(0) Clear all paired records
(1~8) Clear specific paired record with index
(MAC) Clear specific paired record with MAC address

Response1: +PLIST= {

Response2: +PLIST=Param1, Param2{, Param3}

Param1: (1~8) Paired device's index

Param2: (MAC) Paired device's MAC address

Param3: (UTF8) Paired device's local name

Response3: +PLIST={}

Example: Read The paired record of module

<< AT+PLIST

>> +PLIST= {

+PLIST=1,1C5CF226D773, iPhone

+PLIST=2, A0BC30075421, Samsung Note 7

+PLIST={}

>> OK

Example: Clear all paired records of module

<< AT+PLIST=0

>> OK

2.2.8 Turn On/Off High Speed Mode

Format: AT+HSM{=Param}

Param: High Speed Mode (0/1, default:0)

(0) Turn off

(1) Turn on

Response: +HSM=Param

Description: The power consumption may be higher when High Speed Mode enabled

2.2.9 Send Data to Remote Device

Format: AT+BTSEND=Param1, Param2

Param1: Payload Length.

Param2: Payload.

Description: Only presented in command mode.

Example: Send data to remote device through Bluetooth

<< AT+BTSEND=10,1234567890

2.2.10 Receive Data From Remote Device

<p>Format: AT+BTRECV{=Param} Param: Payload length (1~2048)</p>
<p>Reponse: AT+BTDATA=Param1, Param2 Param1: Payload Length. Param2: Payload.</p>
<p>Description: Only presented in command mode.</p>
<p>Example: Receive data from remote device through Bluetooth</p> <pre><< AT+BTRECV=10 >> +BTDATA=10,1234567890</pre>

2.3 Wi-Fi Commands

2.3.1 Connect to Remote AP

<p>Format: AT+RAP{=Param1,Param2,Param3} Param1: The SSID of remote AP(1-31 bytes UTF-8) Param2: The password of remote AP(1-31 bytes ASCII) Param3: Optional, Secure Type (ASCII), WPA2 would be used if Param3 not provided WPA2 WPA2 Secure Type WEP WEP64/WEP128 Secure Type</p>
<p>Response: +RAP{=Param1,Param2,Param3}</p>
<p>Description: Module connect to the specified remote AP</p>
<p>Example: connect to a remote AP named "Feasycom" with WPA2 secure type</p> <pre><< AT+RAP=Feasycom,12345678,WPA2 >> OK</pre>

2.3.2 Read/Write Sock Settings

<p>Format: AT+SOCK{=Param1,Param2,Param3,Param4}</p> <p>Param1: the Role of module(ASCII)</p> <p>TCPC TCP Client</p> <p>TCPS TCP Server</p> <p>UDPC UDP Client</p> <p>UDPS UDP Server</p> <p>Param2: Local port(1~65535)</p> <p>Param3: Remote IP address(dot-decimal notation)</p> <p>Param3: Remote port(1~65535)</p>
<p>Response: +SOCK{=Param1,Param2,Param3,Param4}</p>
<p>Example:Read SOCK settings</p> <pre><< AT+SOCK >> +SOCK=UDPC,0,192.168.1.10,9001 >> OK</pre> <p>Example:Write new SOCK settings</p> <pre><< AT+SOCK=TCPC,0,192.168.1.77,9001 >> OK</pre>

2.3.3 Create Connection

<p>Format: AT+WLANC{=Param}</p> <p>Param: Connection mode(1/2/3)</p> <ol style="list-style-type: none"> 1 Connect to AP and create TCP connection or UDP socket 2 Connect to AP 3 Create TCP connection or UDP socket
<p>Response: +WLANC{=Param}</p>
<p>Description: This command should be combined to use with RAP or/and SOCK command</p>
<p>Example: Connect to AP</p> <pre><< AT+WLANC=2 >> OK</pre>

2.3.4 Read/Write IP Distribution Mode

<p>Format: AT+SIP{=Param1{,Param2}}</p> <p>Param1: IP Distribution Mode (0/1,default:0)</p> <p> 0 DHCP</p> <p> 1 Static IP</p> <p>Param2: Local Static IP address(dot-decimal notation), Only valid when Static IP mode enabled</p>
<p>Response: +SIP{=Param1,Param2}</p>
<p>Example: Enable Static IP and set as "192.168.1.100"</p> <pre><< AT+SIP=1,192.168.1.100 >> OK</pre> <p>Example: Enable DHCP</p> <pre><< AT+SIP=0 >> OK</pre>

2.3.5 Read Local IP address

<p>Format: AT+LIP</p>
<p>Response: +LIP{=Param}</p> <p>Param: local IP address(dot-decimal notation)</p>
<p>Description: When connection between module and remote AP established, a valid IP address will be distributed to module, otherwise Local IP address is always set to "0.0.0.0" which is invalid</p>
<p>Example: Read local IP address</p> <pre><< AT+LIP >> +LIP=192.168.1.100 >> OK</pre>

2.3.6 Read/Write Local AP Settings

<p>Format: AT+LAP{=Param1,Param2,Param3}</p>

Param1: The SSID of local AP(1-31 bytes UTF-8) Param2: The password of local AP(1-31 bytes ASCII) Param3: The IP address of local AP (dot-decimal notation)
Response: +LAP{=Param1,Param2,Param3}
Example: Write new local AP settings << AT+RAP=BW226,12345678,192.168.1.1 >> OK

2.3.7 Turn On/Off Auto-connection to Remote AP

Format: AT+APAC{=Param1,Param2,Param3,Param4} Param1: Auto-connection control(0/1,default:1) 0 Disable Auto-connection 1 Enable Auto-connection Param2: Retry times(1~255, default:3) Param3: Retry interval(1~255 seconds, default:5) Param4: Auto-connection mode(0/1, default:1) 0 Scan before start Auto-connection after power on 1 Start Auto-connection directly after power on
Response: +APAC{=Param1,Param2,Param3,Param4}
Description: Scan before start Auto-connection method is recommended to use when there are several APs in the house
Example: Write new local AP settings << AT+APAC=1,3,5,1 >> OK

2.3.8 Start/Stop Simple Config

Format: AT+SCFG=Param Param: Simple Config control(0/1) 0 Stop Simple Config 1 Start Simple Config
--

Description: Auto-connection to the remote AP must be disabled before starting Simple Config

Example: Start Simple Config

```
<< AT+SCFG=1
>> OK
```

2.3.9 Ping Remote Device

Format: AT+PING{=Param1,Param2}

Param1: The IP address of remote device(dot-decimal notation)

Param2: Ping times(decimal)

Response: +PING{=Param1,Param2,Param3,Param4}

Param1: Packets sent

Param2: Packets received

Param3: Packets lost

Param4: Packet loss rate

Example: Ping 192.168.1.1 five times

```
<< AT+PING=192.168.1.1,5
>> OK
```

2.3.10 Read Wi-Fi MAC Address

Format: AT+MAC

Response: +MAC=Param

Param: The Wi-Fi MAC address of module (12 Bytes ASCII)

Example: Read the Wi-Fi MAC address of module

```
<< AT+MAC
>> +MAC=DC0D30123456
>> OK
```

2.3.11 Read/Write Wi-Fi Mode

<p>Format: AT+ROLE{=Param}</p> <p>Param: Wi-Fi Mode (1/2/3,default:2)</p> <ul style="list-style-type: none"> 1 STA 2 AP 3 STA+AP
<p>Response: +ROLE{=Param}</p>
<p>Example: Read Wi-Fi Mode</p> <pre><< AT+ROLE >> OK</pre> <p>Example: Write Wi-Fi Mode to STA mode</p> <pre><< AT+ROLE=1 >> OK</pre>

2.3.12 Read RSSI of Remote AP

<p>Format: AT+RSSI</p>
<p>Response: +RSSI{=Param}</p> <p>Param: The RSSI of remote AP(-127~0)</p>
<p>Example: Read RSSI of remote AP</p> <pre><< AT+RSSI >> +RSSI=-55 >> OK</pre>

2.3.13 Read/Write Subnet Mask

<p>Format: AT+MASK{=Param1,Param2}</p> <p>Param1: STA subnet mask control (0/1,default:0)</p> <ul style="list-style-type: none"> 0 Disable STA subnet mask 1 Enable STA subnet mask <p>Param2: The subnet mask of local STA(dot-decimal notation)</p>
--

Response: +MASK{=Param1,Param2}

Example: Enable STA subnet mask and set as “255.255.255.0”

<< AT+MASK=1,255.255.255.0

>> OK

Example: Disable STA subnet mask

<< AT+MASK=0

>> OK

2.3.14 Read/Write Gateway Address

Format: AT+GW{=Param1,Param2}

Param1: STA Gateway address control (0/1,default:0)

0 Disable STA gateway address

1 Enable STA gateway address

Param2: The gateway address of local STA(dot-decimal notation)

Response: +GW{=Param1,Param2}

Example: Enable STA gateway address and set as “192.168.1.1”

<< AT+GW=1,192.168.1.1

>> OK

Example: Disable STA gateway address

<< AT+GW=0

>> OK

2.3.15 Read/Write DNS

Format: AT+DNS{=Param1,Param2}

Param1: STA static DNS server address control (0/1,default:0)

0 Disable STA static DNS server address

1 Enable STA static DNS server address

Param2: The static DNS server address of local STA(dot-decimal notation)

Response: +DNS{=Param1,Param2}

Example: Enable DNS and set as “114.114.114.114”

<< AT+DNS=1,114.114.114.114

```
>> OK
```

Example: Disable DNS

```
<< AT+DNS=0
```

```
>> OK
```

2.3.16 Read STA Network Information

Format: AT+STANI

Response: +STANI{=Param1,Param2,Param3,Param4}

Param1: The IP address of local STA(dot-decimal notation)

Param2: The subnet mask of local STA(dot-decimal notation)

Param3: The gateway address of local STA(dot-decimal notation)

Param4: The DNS server address of local STA(dot-decimal notation)

Description: This command is activated after local STA connected to remote AP

Example: Read the current detailed network information of local STA

```
<< AT+STANI
```

```
>> +STANI=192.168.0.138,255.255.255.0,192.168.0.1,114.114.114.114
```

```
>> OK
```

2.3.17 Send Data to Remote Device

Format: AT+WFSEND=Param1, Param2, Param3

Param1: ID of TCP/UDP connection (0~2)

Param2: Payload Length

Param3: Payload

Description: Only presented in command mode

Example: Send data to remote device through Wi-Fi

```
<< AT+WFSEND=0,10,1234567890
```

2.3.18 Receive Data From Remote Device

<p>Format: AT+WFRECV=Param1, Param2 Param1: ID of TCP/UDP connection (0~2) Param2: Payload Length (1~2048)</p>
<p>Response: +WFDATA{=Param1,Param2,Param3} Param1: ID of TCP/UDP connection (0~2) Param2: Payload Length Param3: Payload</p>
<p>Description: Only presented in command mode</p>
<p>Example: Receive data from remote device through Wi-Fi << AT+WFRECV=1,10 >> +WFDATA=1,10,1234567890</p>

3. Indication

3.1 General Indications

3.1.1 Device State

Format: +DEVSTAT=Param

Param: A base-10 representation of a bit field, for each bit:

BIT[0] 0: Power Off; 1: Power On

Example: Module is power on

```
>> +DEVSTAT=1
```

3.1.2 Remote AP State

Format: +RAPSTAT=Param

Param:(0~3)

- (0) Unsupported
- (1) Standby
- (2) Connecting
- (3) Connected

3.1.3 TCP State

Format: +TCPSTAT=Param

Param:(0~3)

- (0) Unsupported
- (1) Standby
- (2) Connecting
- (3) Connected

3.1.4 UDP State

Format: +UDPSTAT=Param

Param:(0~3)

- (0) Unsupported
- (1) Standby
- (2) Creating socket
- (3) Socket ready for transmission

3.1.5 GATT State

Format: +GATTSTAT=Param

Param:(0~3)

- (0) Unsupported
- (1) Standby
- (2) Connecting
- (3) Connected

3.1.6 SPP State

Format: +SPPSTAT=Param

Param:(0~3)

- (0) Unsupported
- (1) Standby
- (2) Connecting
- (3) Connected

3.1.7 Scan Result

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

Param1: Index (1~64)

Param2: Device address type (0/1/2/5)

- (0) LE public address
- (1) LE random address
- (2) BR/EDR address
- (5) AP address

Param3: MAC address (12 Bytes ASCII) Param4: RSSI (-127 ~ 0) Param5: Size of Param6 if exist Param6: Device Name for BR/EDR devices or advertising data for LE devices or SSID for AP devices
Description: Param5/Param6 may not exist if remote device out of distance
Example: Scan nearby AP devices <pre><< AT+SCAN=5 >> OK +SCAN=1,5,DC0D30000003,-32,8,Feasycom +SCAN=2,5,DC0D30000044,-64,5,BW226 +SCAN=3,5,DC0D30000097,-47,6,BW226A</pre>

3.1.8 Received Bluetooth Data

Format: +BTDATA=Param1 Param1: Payload Length
Description: Only presented in command mode
Example: Received 100 bytes data by Bluetooth <pre><< AT+BTDATA=100</pre>

3.1.9 Received Wi-Fi Data

Format: +WFDATA=Param1, Param2 Param1: ID of TCP/UDP connection (0~2) Param2: Payload Length
Description: Only presented in command mode
Example: Received 100 bytes data by Wi-Fi, and connection ID is 0 <pre><< AT+WFDATA=0,100</pre>

3.2 GPIO Indications

3.2.1 LED Pin

Pin 32 (Output)

Low level	Initializing
Blink in 1Hz	Ready to connecting
High level	Connected

3.2.2 Connection State Pin

Pin 33 (Output)

Low level	Disconnected
High level	Connected