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1. Preambles

Herein we introduces some specific examples on the usage of Espressif AT Commands. For more information about the complete instruction set, please refer to documentation "[4A-ESP8266__AT Instruction Set](#)".

- (1) Flash in AT bin files which supports AT commands ([/esp_iot_sdk/bin/at](#)) into the ESP8266 device, according to "[readme.txt](#)" there.
- (2) Power on device and set serial baud rate to 115200. Enter AT commands.

Category:

- Connection
 - Logon Actions
 - Serial
- Terminal
 - Emulation
 - Modes
 - Emacs
 - Mapped Keys
 - Advanced
 - Appearance
 - ANSI Color
 - Window
 - Log File
 - Printing
 - X/Y/Zmodem

Serial Options

Port: COM6

Baud rate: 115200

Data bits: 8

Parity: None

Stop bits: 1

Flow control

- ☐ DTR/DSR
- ☐ RTS/CTS
- ☐ XON/XOFF

Serial break length: 100 milliseconds

Note: Please pay attention to the new line mode, AT command need `"/r/n"` to be the end.

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Emulation Modes

Initial modes

- ☐ Cursor key mode
- ☒ Line wrap
- ☒ New line mode
- ☒ Numeric keypad
- ☐ Application keypad

Current modes

- ☐ Cursor key mode
- ☒ Line wrap
- ☒ New line mode
- ☒ Numeric keypad
- ☐ Application keypad

Mode switching

- ☒ Enable 80/132 column switching
- ☒ Enable cursor key mode switching
- ☒ Enable keypad mode switching
- ☒ Enable line wrap mode switching



2. Single Connection as TCP Client

- Set WiFi mode:

```
AT+CWMODE=3      // softAP+station mode
Response :OK
```

- Connect to router:

```
AT+CWJAP="SSID", "password"    // SSID and password of router
Response :OK
```

- Query device's IP:

```
AT+CIFSR
Response :192.168.3.106    // Device got an IP from router.
```

- Connect PC to the same router that ESP8266 is connected to.

Using a network tool (eg: "NetAssist.exe") on the computer to create a server.



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