ESP8266 WiFi Module (WRL-17146)

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**Power**
- VCC-3.0-3.6V
- Standby ~ 0.9μA
- Running ~ 60-215mA, Average ~ 80mA

**Wifi Features**
- 802.11 b/g/n
- 2.4GHz
- WPA/WPA2
- Wifi Direct

**Memory/Speed Features**
- 80MHz
- 64KB instruction RAM
- 96KB data RAM
- 64K boot ROM
- 4MB* Flash Memory

**Basic Connection**
- VCC - 3.3V
- GND - GND
- TX - RX on Arduino or FTDI
- RX - TX on Arduino or FTDI
- Chip Enable - 3.3V

**Default Baud Rate**
- 115200* 8N1

**LEDs**
- Blue: TX

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**I/O Features**
- Integrated TCP/IP
- Integrated TR switch, LNA, balun

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**AT Command List**

**Example commands**

- `AT+CWMODE=?` //View options for mode (test)
- `AT+CWMODE=3` //Set mode to client and access modes (set)
- `AT+CWLAP` //View available networks (execute)
- `AT+CWJAP="apoint", "pass", 11, 0` //Set up access point
- `AT+CWQAP` //Disconnect from network (execute)
- `AT+CWSAP="apoint", "pass", 11, 0` //Set up access point
- `AT+CWLIF` //Show devices connected to access point

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**AT Command Usage**

Commands are case sensitive and should end with /r/n

- **Commands**
  - Set = AT+<x>=<...> - Sets the value
  - Inquiry = AT+<x>? - See what the value is set at
  - Test = AT+<x>=? - See the possible options
  - Execute = AT+<x> - Execute a command

Commands with * have been depreciated in favor of COMMAND_CUR and COMMAND_DEF. CUR will not write the value to flash, DEF will write the value to flash and be used as the default in the future.