

# ESP-12F

Operating Voltage 2.5V-3.6V

IO MAX output current is 12mA

Power consumption 20µA to 170mA depending status (deep-sleep to emitting)

Power off 0.5µA

RTC clock is still running in deep-sleep mode

4MB of SPI flash

Boot Mode	GPIO 0	GPIO 2	GPIO 15
UART (Flashing)	low	high	low
Flash Boot (Run program)	high	high	low

ESP-12F pin numbers

ESP-12F pin names

Arduino Pins

ESP8266EX Pin name & function 1

ESP8266EX IO

ESP8266EX General SPI \*

ESP8266EX HSPi

ESP8266EX I2C software \*\* assignment pins only

ESP8266EX I2S

ESP8266EX UART0 74880bds default

ESP8266EX UART1

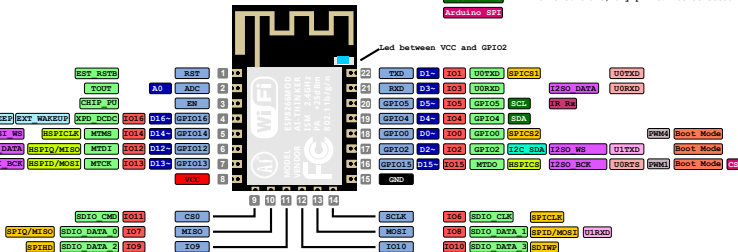
ESP8266EX PWM

ESP8266EX IR

ESP8266EX Power functions

Arduino I2C \*\*\* I2C is software, any pin can be selected

Arduino SPI



\* SPI interface is used for SPI flash program memory overlap mode can be used to use both SPI and HSPi on same IO lines read chapter 5 in ESP8266 Technical reference