ESP8266 Thing (WRL-13231)

Arduino add-on available
80MHz

Unpopulated Ics
ATECC108A full turnkey ECDSA engine
TMP102 12-bit digital temperature sensor
TSL2561 luminosity/light sensor

GPIO0
On bootup will run program if high and bootloader if low
Tied to DTR to run bootloader when reset

Typical Power (ESP8266 module)
- Transmit 135-215mA
- Receive 60-62mA
- Standby 0.9mA
- Deep sleep 10uA

Wi-Fi
- 802.11 b/g/n
- Wi-Fi Direct (P2P) soft AP

LEDs
- Power: Red
- Charge: Yellow
- User (pin 5): Green

Unpopulated Ics
- ATECC108A full turnkey ECDSA engine
- TMP102 12-bit digital temperature sensor
- TSL2561 luminosity/light sensor

Power (ESP8266 Thing)
- Vin: 3.3-5.5 V
- Vbatt: Single cell Lipo (charged via USB)
- VCC (as input): 1.7V-3.6V
- Max 12mA per I/O pin