IOT Cricket - Wi-Fi module

Ultra-low battery powered Wi-Fi module, which can last on a single battery for years. You can build various IOT devices within minutes - with literally ZERO code & programming. It comes with a pre-installed software, which is integrated with FREE Cloud service. Connect devices to the internet out of the box either from a smartphone or a laptop from any web browser. Manage devices remotely and integrate to other systems such as IFTT by using HTTP Post Events or use MQTT protocol.
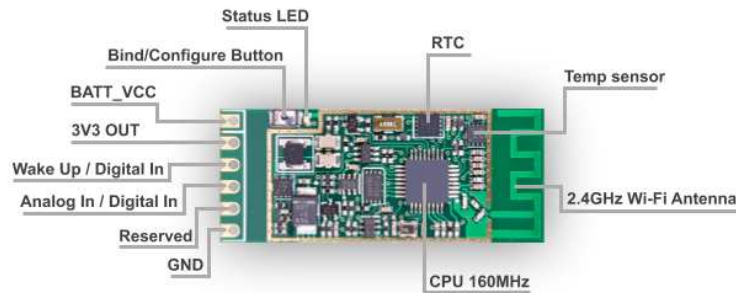
Wi-Fi network

Connect Cricket to the internet out of the box from your Wi-Fi network by using a web browser either from a laptop or a smartphone

Cloud

- Connect devices to smartphones and other systems
- Manage devices remotely through Developer Portal
- Use simple MQTT api

Status LED
Bind/Configure Button
BATT_VCC
3V3 OUT
Wake Up / Digital In
Analog In / Digital In
Reserved
GND
RTC
Temp sensor
2.4GHz Wi-Fi Antenna
CPU 160MHz

Pins definition

BATT	Battery input power
3V3	3V3 Output power
IO1	Wake Up signal
IO2	Analog In / Digital In
IO3	Reserved
GND	GND

Cricket Features

- Can operate on a single AAA battery
- Ultra-low power, true 0A current when not in operation
- Built-in RTC (use for wake ups)
- Built-in temperature sensor
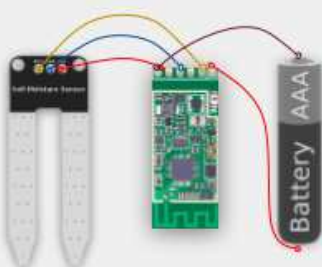- Over-the-Air FW upgrade
- HW configuration from Cloud service

Hardware Specification

- Operating Voltage: 1V~3.6V
- Operating Temperature Range: -40°C~125°C
- ESP8266EX
- CPU 32bits @160MHz
- 2.4GHz Wi-Fi: 802.11 b/g/n WPA / WPA2

1 Assemble
Example
Soil Moisture Sensor
Battery AAA

2 Configure
Developer Portal
dev.thingsonedge.com
➔ Register
➔ Add device
➔ Configure
➔ Save
SERIAL
MUST REGISTER dev.thingsonedge.com

3 Connect
Wi-Fi Network
Press a button for 5 sec
toe_device (SSID)
Pair from any browser:
http://192.168.4.1/index.html

4 Use
mqtt.thingsonedge.com
➔ 1883 port
➔ SERIAL user
➔ SERIAL pass
/ SERIAL / PARAM
io1_wake_up
io2
io1_wake_up
rtc_wake_up
github.com/thingsonedge/cricket

Things On Edge