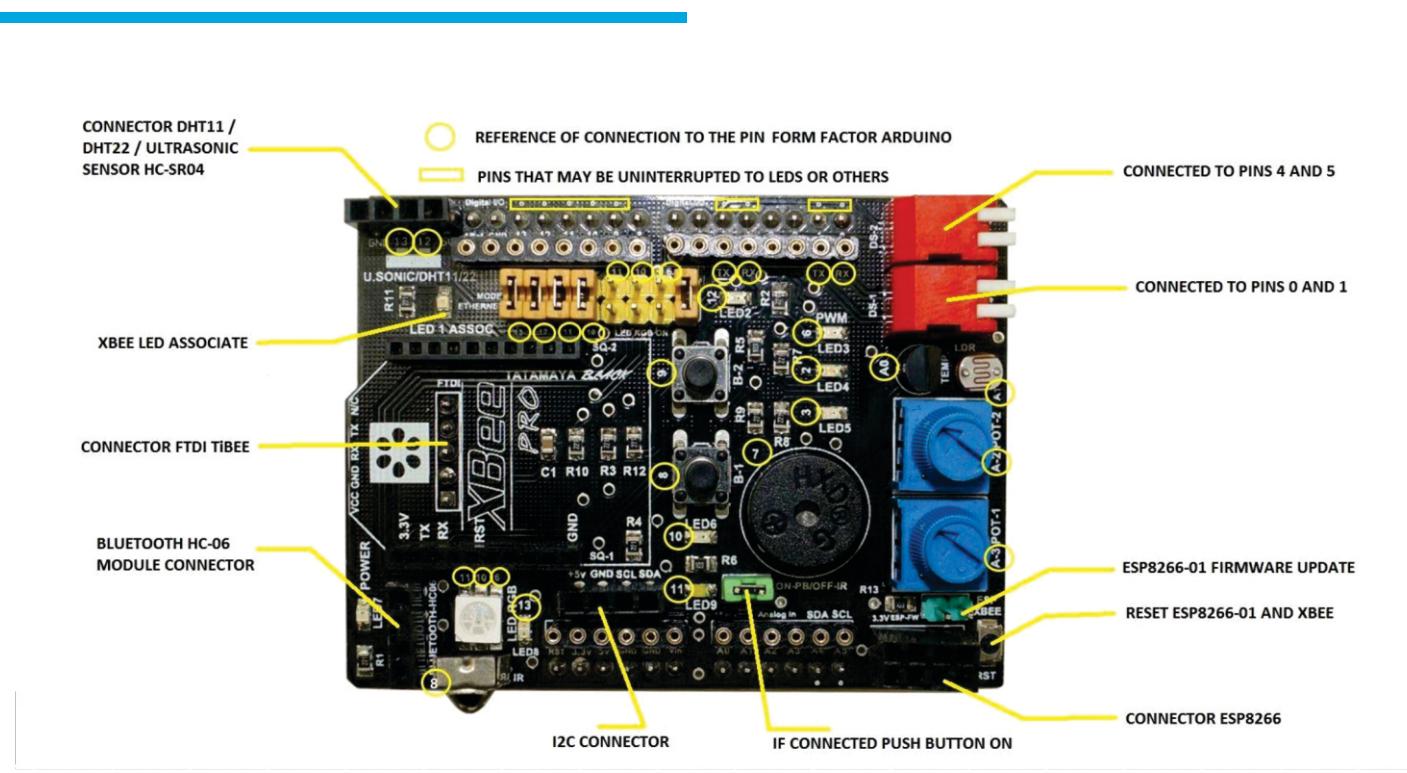


TATAMAYA *BLACK*

KIT DESENVOLVIMENTO IOT

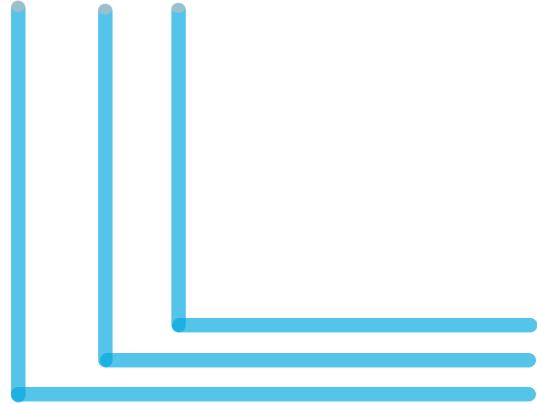
EngeBOT Tecnologia Ltda.
INovação sustentável e inteligente

Este Shield promete substituir de forma prática, parte dos diversos kits encontrados no mercado, baseados na plataforma Arduino. Com ela você poderá:



1. Simular entradas digitais;
2. Simular saídas digitais;
3. Simular entradas analógicas;
4. Valores PWM;
5. Medir Temperatura (LM35-TO-92 Temp. Sensor);
6. Luminosidade (LDR-5mm-GL5528);
7. Verificar distância através de encaixe de sensor ultra-sônico (por acoplamento);
8. Verificar Temperatura e umidade através de encaixe de sensor DHT11/22 (por acoplamento);
9. Simulação de controle remoto via receptor IR;
10. Utilizar um Display OLED 0.96" I2C (por acoplamento);
11. Alterar cores de um LED RGB (SMD-5050);
12. Alarmes sonoros (Buzzer);
13. Simulação de controle via Internet das Coisas IoT através de módulo ethernet ou módulo sem fio Wi-fly, ESP8266-01, WEE, WIBEE;
14. Simulação de Redes sem fio através de tecnologias como: Zigbee, Bluetooth, RF, etc.
15. Configurar o firmware do XBEE, WI-FLY, ESP8266-01 através do conversor FTDI FT232 ou TiBEE.

Acoplamentos



ACOPLAMENTOS LINHA ARDUINO

ARDUINO (UNO, DUEMILENOVE, ZERO, 101, DUE, YUN (com uso de adaptador), LEONARDO, MEGA, ARDUINO ETHERNET (com uso de adaptador), ETHERNET SHIELD (com uso de adaptador), PRO, MEGAADK, BT, NG, ARDUINO WIFI SHIELD e SP

ACOPLAMENTOS LINHA ARM

FRDM-K64F, FRDM KL25Z, FRDM-KL46Z, FRDM-KV31F

ACOPLAMENTOS LINHA PIC

chipKIT uC32 e chipKIT Max32

ACOPLAMENTOS LINHA INTEL

Intel Edison e Intel Galileo

OUTROS ACOPLAMENTOS

LinkIt ONE, Seeeduino GPRS, Arch Link
e Bugduino V2.0

Outras Plataformas:

Raspberry Pi 3 (com cabinhos), Seeeduino G, Seeeduino LoRaWAN, Arduino Nano (com cabinhos), Arduino Pro Micro (com cabinhos), NodeMCU ESP8266-12 (com cabinhos), Mini NodeMCU ESP8266 (com cabinhos), SEEEDUINO e Esquilo Air.

Módulos Wireless:

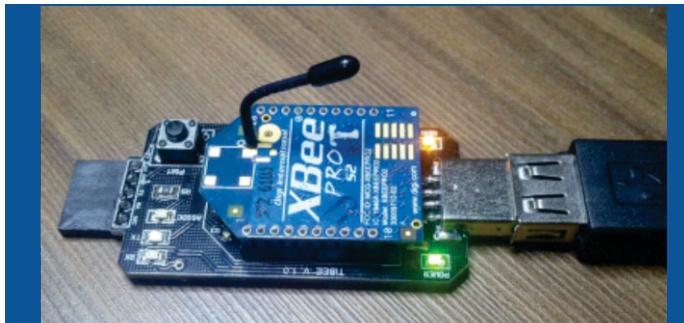
XBee, WROOMBEE (EngeBOT Tecnologia), SIGBOT (EngeBOT Tecnologia), Wee Serial WIFI Module, WiFi Bee-ESP8266, Bluetooth V2.0 Bee, 4 Pin Bluetooth RF Transceiver Module HC-06, RFbee V1.1, GPS Bee kit (http://wiki.seeed.cc/GPS_Bee_kit/ <http://www.elecfreaks.com/7383.html>) e SIM808 GPRS/GSM+GPS Shield ACS80801S Shield Arduino Compatible.

Shields compatíveis:

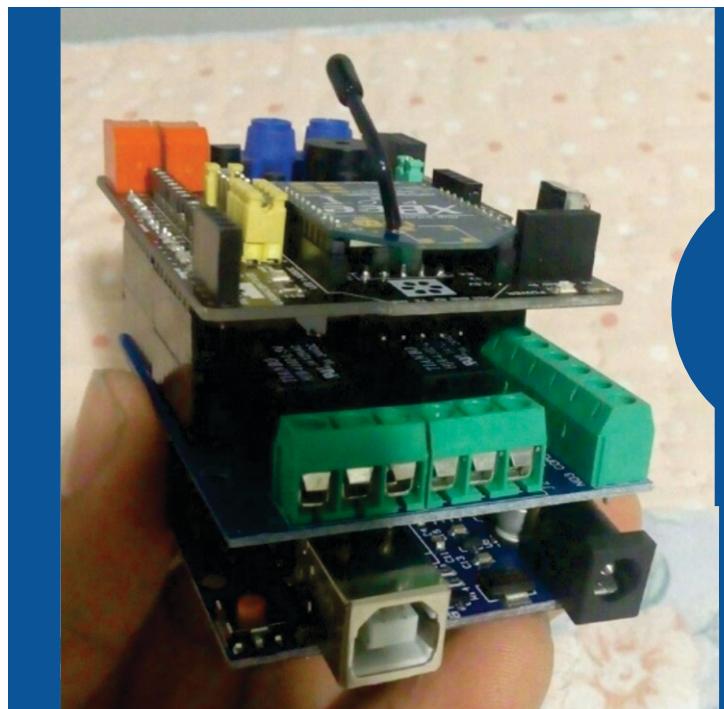
- FINGERPRINT SCANNER SHIELD
- BARCODE SCANNER SHIELD
- VIBRATION SHIELD
- DISPLAY LCD
- OLED DISPLAY
- COLOR DETECTOR SHIELD
- NFC RFID SHIELD
- PATTERN SHIELD
- DATA LOGGER SHIELD
- TERMINAL SHIELD
- TEXT TO SPEECH SHIELD
- SPEECH SYNTHESIS SHIELD
- VOICE RECOGNITION SHIELD
- PIR SENSOR
- ULTRASONIC SENSOR
- ALTIMETER BAROMETER
- PRESSURE SENSOR
- NUMERIC KEYBOARD SHIELD
- ACCELEROMETER SHIELD
- MAGNETOMETER SHIELD - tem que testar acoplamento direto -oled

- LCD SHIELD -- avaliar pois tem diversos modelos no mercado
- GPS SHIELD -- ok mais verificar pinagem com arduino
- CLOCK SHIELD
- MIC SHIELD - ok
- Arducam Mini module Camera Shield - (<http://arduino.stackexchange.com/questions/24970/can-i-connect-a-camera-without-a-shield>) - avaliar usando a tatamaya com alongador
- Gas Sensor Shield
- SD Card Shield
- Matrix Keypad
- Relay Shield v0.9b 5V 4-Channel Relay Module for Arduino
- 2-Channel Flame Sensor Module

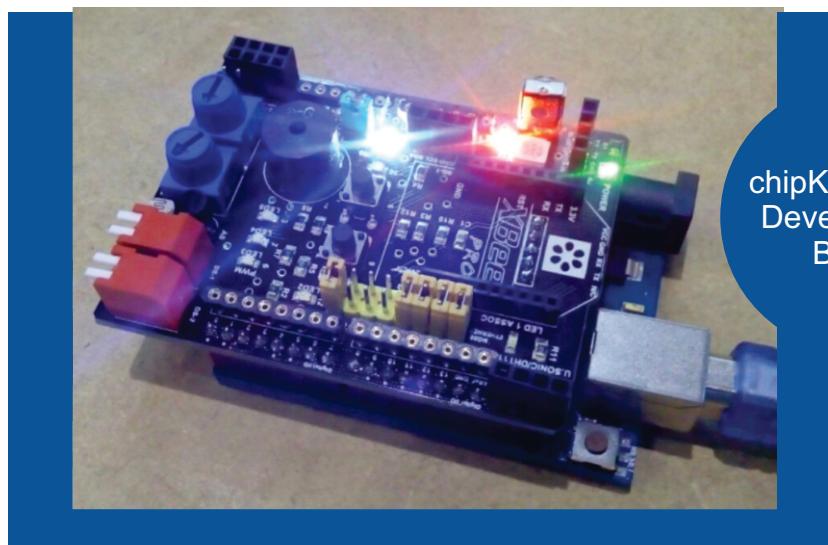
MÓDULO TIBEE QUE PODE SER ACOPLADO A TATAMAYA BLACK



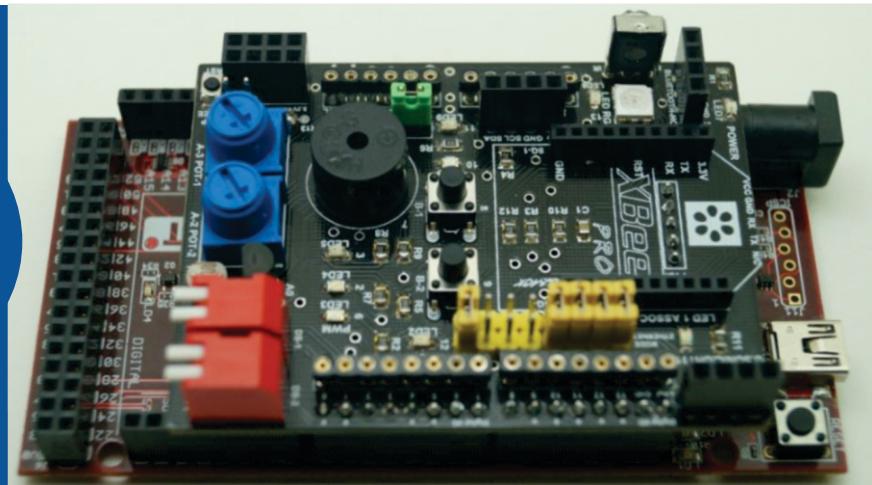
ALGUNS ACOPLAMENTOS TATAMAYA BLACK Arduino e Módulo Relé



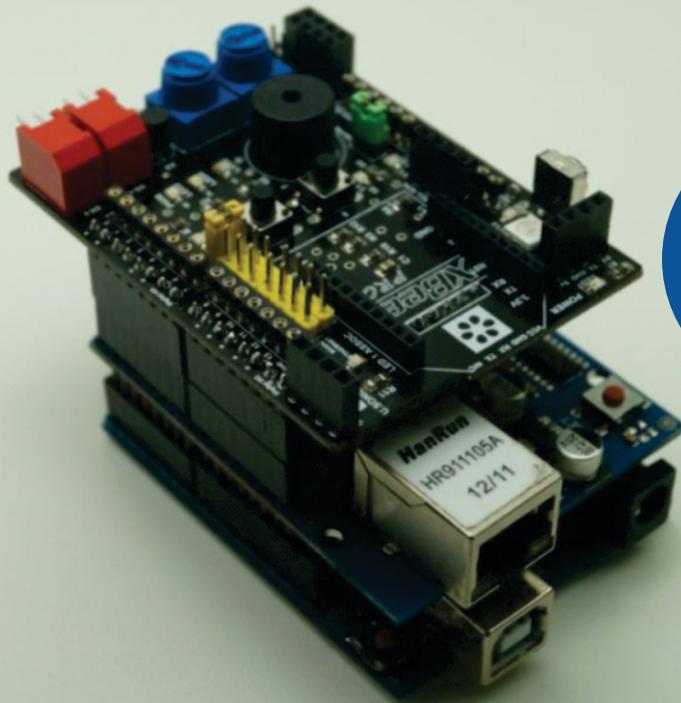
chipKIT Max32
Development
Board



Ethernet
Shield

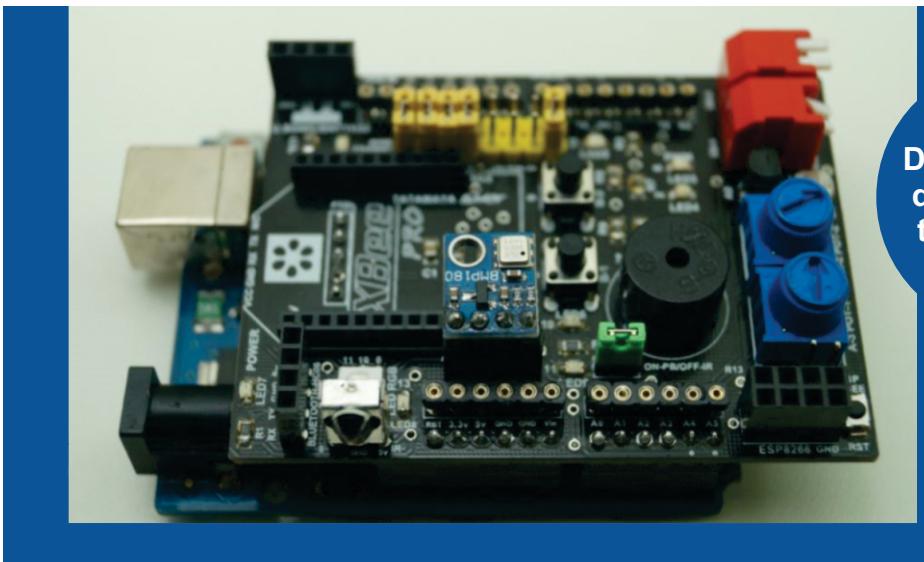


Módulo
HC-06

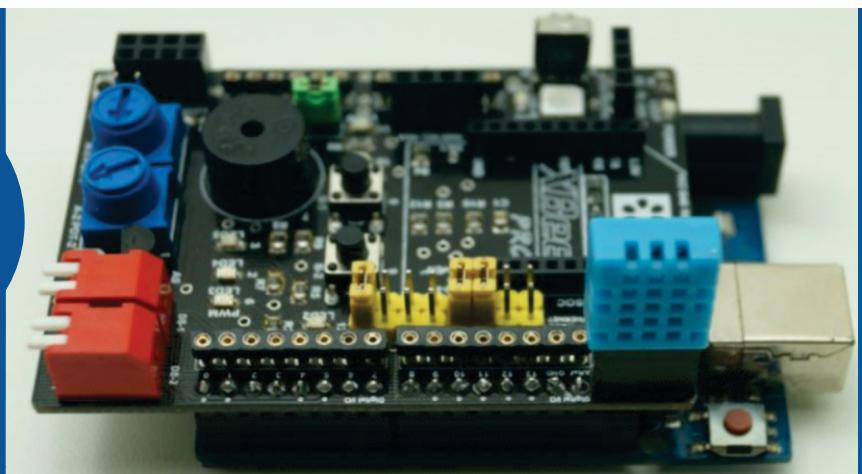


I2C sensor de
pressão e
temperatura

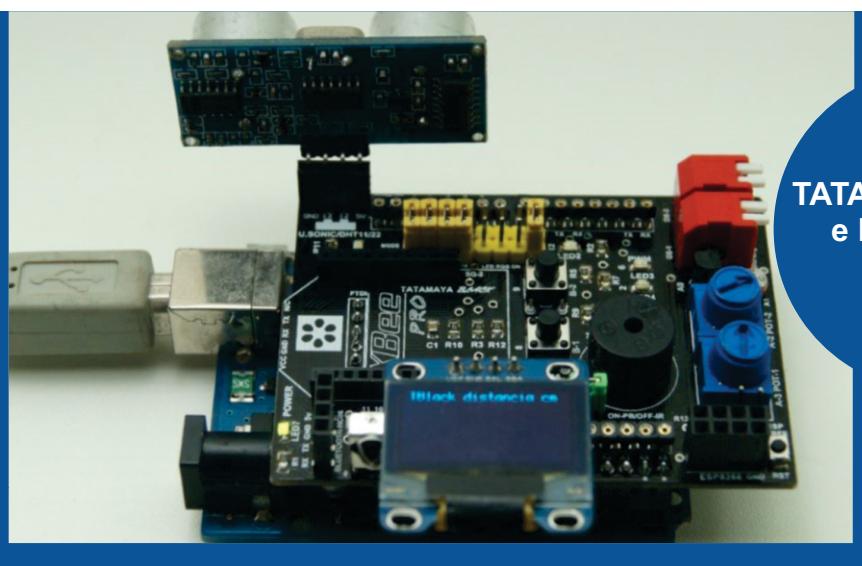




DHT11 sensor
de pressão e
temperatura



Sensor de
ultrasônico e
display OLED
porta I2C



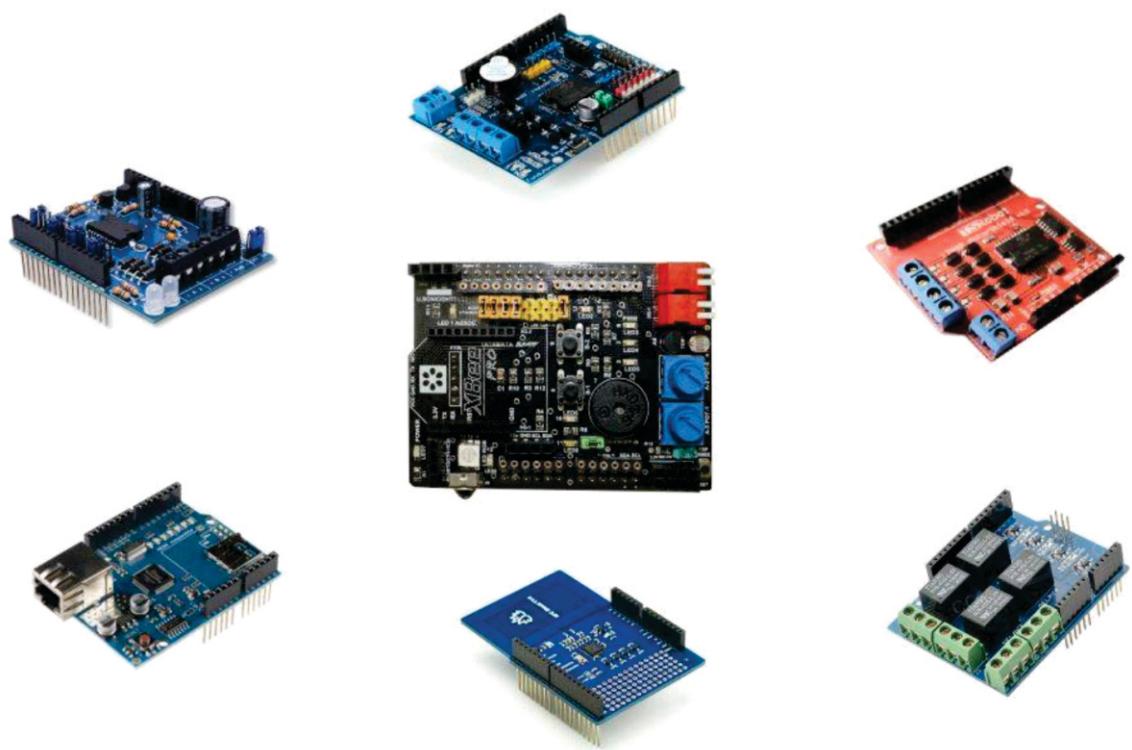
TATAMAYA BLACK
e ESP8266-01
+ TIBEE

MODELO DE KIT TATAMAYA BLACK

KIT PROTIPAGEM E AUTOMAÇÃO FÁCIL ENGEBOT TECNOLOGIA

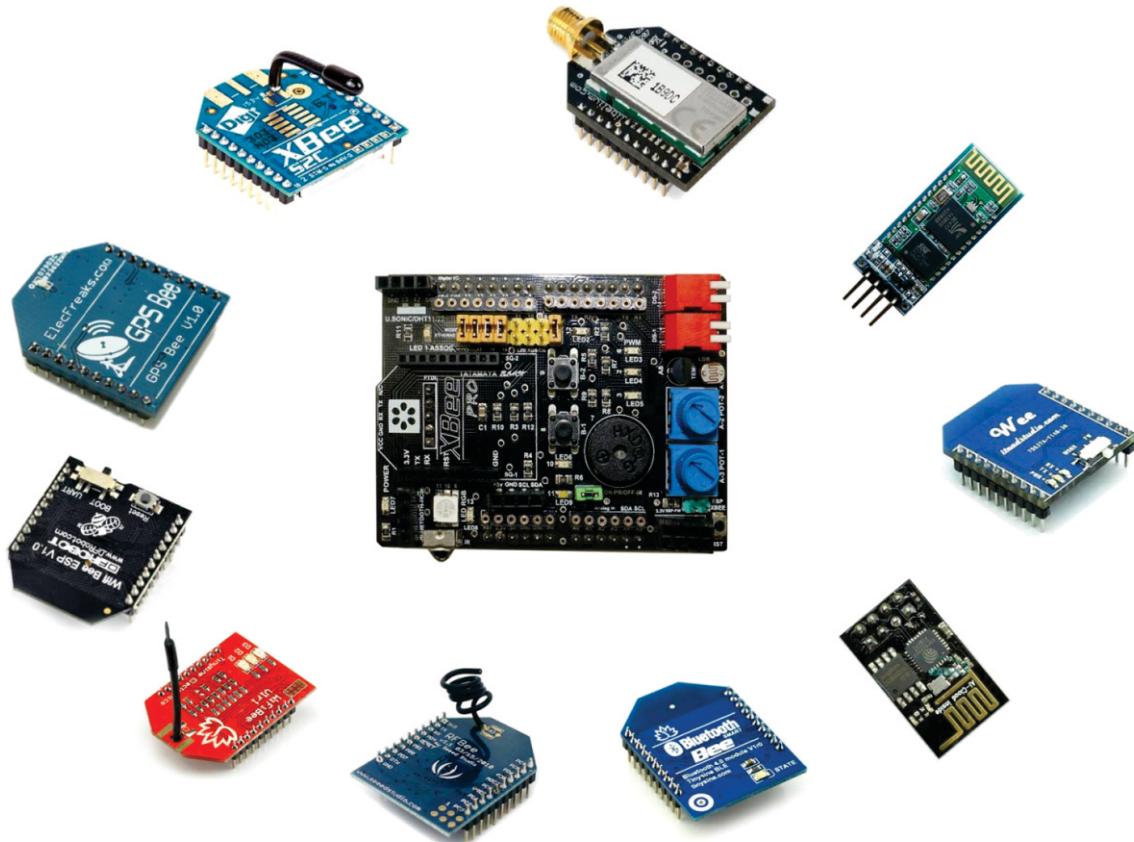


Shields que funcionam na Tatamaya Black

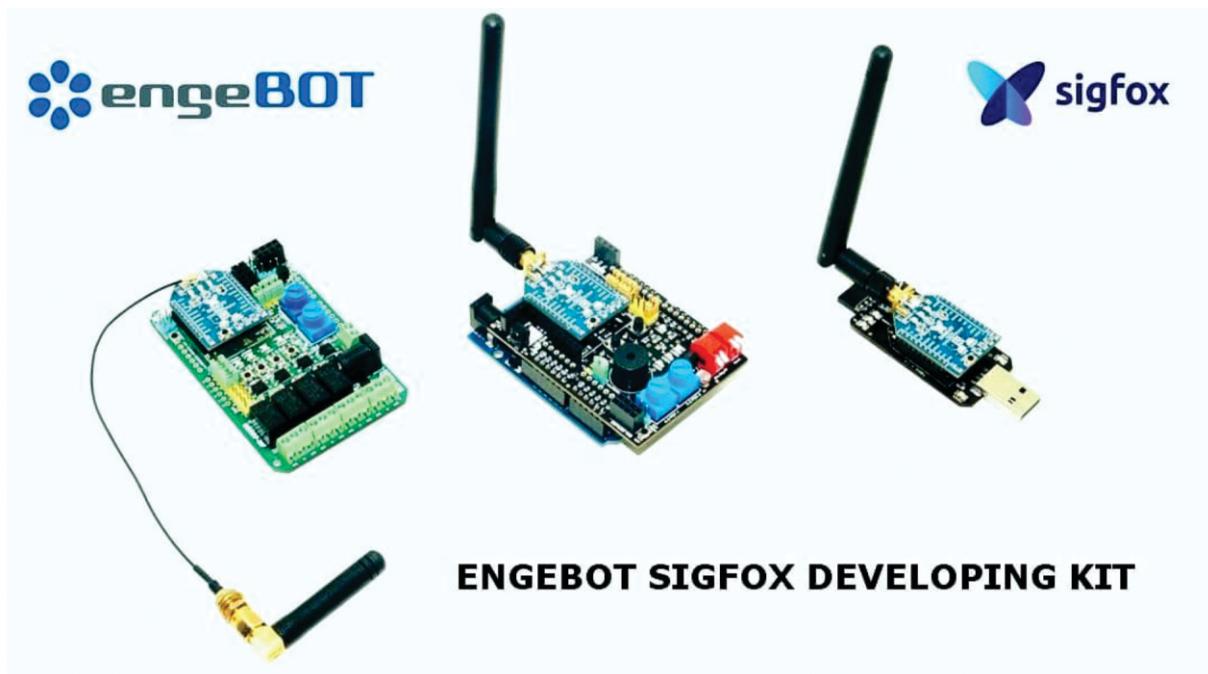


Tatamaya Black KIT IOT multiprotocolos

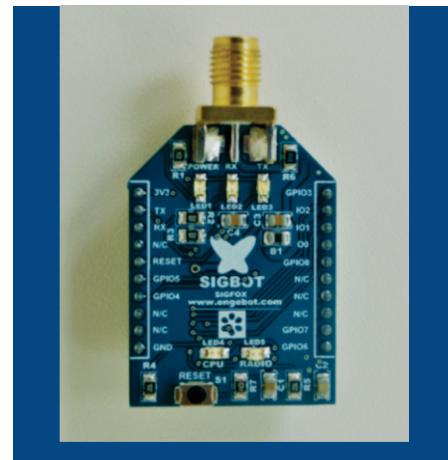
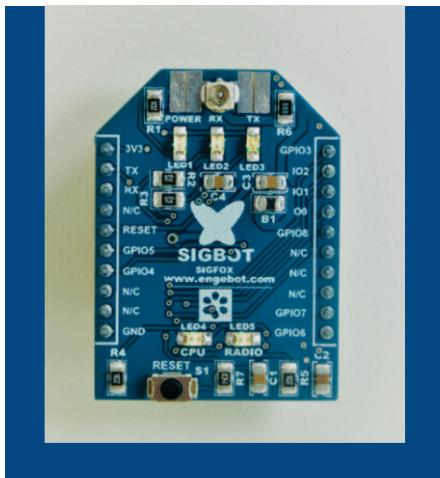
TATAMAYA BLACK MULTIPROTOCOL



Tatamaya Black KIT IOT SIGFOX



SIGBOT - Módulos Módulos XBEE SOCKET SIGFOX EngeBOT Tecnologia - únicos na América Latina em fase de Certificação/homologação na SIGFOX e ANATEL



WROOMBEE - Módulos XBEE SOCKET ESP32 WROOM da EngeBOT Tecnologia - únicos na América Latina em fase de homologação na ANATEL



Links de vídeos e apresentações

<https://prezi.com/view/9ya8SPJJ14jSJighsTJJ/>
<https://prezi.com/view/9ya8SPJJ14jSJighsTJJ/>

<http://campuse.ro/events/campus-party-brasilia-2017/meeting/plataforma-tatamaya-black/>

<http://g1.globo.com/ac/acre/acre-tv/videos/t/edicoes/v/invencoes-tecnologicas-chamam-atencao-na-expoacre/6037258/>
<http://iotlatinamerica.com.br/>
[videos youtube](#)

[Tatamaya Black conectada ao xbee no modo AT](#)

<https://www.youtube.com/watch?v=gJ0tjPeOXws>

[Tatamaya Black e TiBEE configurando firmware do esp8266-01](#)

<https://www.youtube.com/watch?v=Xrmz9IFFLsE&t=8s>

[Tatamaya Black+arduino uno + sensor ultrasonic e Display OLED 0.96" I2C](#)

<https://www.youtube.com/watch?v=qp-UELMyfio>

[Tatamaya Black+TiBEE+ ESP8266 01 - Blynk a Led](#)

<https://www.youtube.com/watch?v=1pul5DdCt88>

[Interface full Android Tatamaya Shield bluetooth](#)

<https://www.youtube.com/watch?v=6AHtAO5uwEk>

[Xbee API with shieldbeekit](#)

<https://www.youtube.com/watch?v=sVcRxdst47k>



<https://www.instagram.com/engebot.technology/?hl=pt-br>

Links de códigos no Codebender:

<https://codebender.cc/user/engereggae>



Eng. Cirineu Cavalho Fernandes - Co Founder
CTO EngeBOT Tecnologia

EngeBOT Tecnologia Ltda.

www.engebot.com
<https://www.facebook.com/engebot.tecnologia/>