

Prototyping Functions

- Optional WiFi
 - STA (station)
 - AP (access point)

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Prototyping Functions

- Step-by-step Functionality (Demos)
 - GP Output (GPIO – General Purpose I/O)
 - Read A/D
 - I2C/SMBus (Wire)
 - *Analog EVM/Boosterpack's*
 - *PinMap Housekeeping*
- Optional WiFi
 - STA (station)
 - AP (access point)
- Optional Energia
- UI
 - Button (GP Input - GPIO, add debounce)
 - LCD Display (“Hello”)
 - Music
- UI - Serial Interface (i.e. Putty for echo “Hello World”)

Demo – WiFi STA <https://energia.nu/guide/libraries/wifi/>

– Step-by-step Functionality (Demo)

- WiFi (Wireless UI and Cloud with HTTP Server and/or local Access Point)
 - Energia SimpleWebServerWiFi (HTTP server as WiFi STA) – **Blink LED**

You're connected to the network

Waiting for an ip address

IP Address obtained

SSID: TP-LINK_33C4BE

IP Address: 192.168.1.100

signal strength (RSSI):-40 dBm

To see this page in action, open a browser to
<http://192.168.1.100>

Starting webserver on port 80

Webserver started!

```
new client
```

```
GET /L HTTP/1.1
```

```
Host: 192.168.1.100
```

```
Upgrade-Insecure-Requests: 1
```

```
Accept:
```

```
text/html,application/xhtml+xml,application/xml;q=0.9,*/*  
;q=0.8
```

```
User-Agent: Mozilla/5.0 (iPhone; CPU iPhone OS 11_2_5  
like Mac OS X) AppleWebKit/604.5.6 (KHTML, like Gecko)  
Version/11.0 Mobile/15D60 Safari/604.1
```

```
Accept-Language: en-us
```

```
Accept-Encoding: gzip, deflate
```

```
Connection: keep-alive
```

```
client disconnected
```

CC3220 SimpleLink Wi-Fi
(WiFi STA)



Demo – WiFi AP (Access Point)

<https://energia.nu/guide/libraries/wifi/>

– Step-by-step Functionality (Demo)

- WiFi (Wireless UI and Cloud with HTTP Server and/or local Access Point)
 - Energia APWatchConnectDisconnect (WiFi Access Point) – AP Network

```
Setting up Access Point named: MyEnergiaAPJoe  
AP uses WPA and password is: password
```

```
AP active.
```

```
Client connected! All clients:
```

```
Client #0 at IP address = 192.168.1.2, MAC = F8:27:93:44:7B:03
```

```
Client disconnected.
```

```
Client connected! All clients:
```

```
Client #0 at IP address = 192.168.1.2, MAC = F8:27:93:44:7B:03
```

```
Client disconnected.
```

```
Client connected! All clients:
```

```
Client #0 at IP address = 192.168.1.3, MAC = 08:C5:E1:E3:BB:93
```

```
Client disconnected.
```



CC3200 SimpleLink Wi-Fi
(WiFi AP)



CC3220 SimpleLink SDK Wi-Fi
(WiFi AP)