# http://www.mcwane.com/upl/images/family-of-companies/logos/synapse-wireless-8cccdd3d.pngE20 Kit1 Demo

This demonstration kit showcases the following products:

* SNAP Connect E20
* SN171 Prototyping board, with RF200 module
* SN173 Prototyping board with SM220 module
* SS200 USB SNAP Stick
* SN132 USB SNAP Stick (loaded with SNAP Sniffer image)

The kit ships with a preloaded demonstration application which runs right out of the box. Simply power up the E20 and use a PC or mobile device to connect to its’ Wifi access point:

**SSID**: synapse-e20  
**Password**: synapse1

**Open a web browser, and point to the E20’s URL:** [**http://192.168.0.1**](http://192.168.0.1)

The web page will display a simple table of wireless SNAP nodes reporting “status”. The SN171 and SN173 boards are preloaded with SNAPpy scripts which report status every 5 seconds, or when a button is pressed.

**Connect the battery packs to the SN171 and SN173 boards, and verify each pack’s switch is ON.**

You should see a blinking LED on each prototyping board. Also, you’ll see both devices show up in the HTML table displayed in your web browser.

As you press button-1 on each board, you’ll see the press-count immediately updated in your browser. Also the current state of each button will be reflected in realtime. In addition, the boards report their current battery level.

## Exploring the Demo

Full source code for this example is available on Github here: ???????????

The Synapse Portal IDE will allow complete embedded module development, as well as wireless sniffer capability – download latest version here: ????????

The web application is a basic python program built with high-performance libraries, Tornado and SNAP Connect. The javascript/html is kept deliberately simple for ease of understanding, although it showcases a low-latency websockets technique. This can be easily extended to REST interfaces, and other web/backend approaches to fit application requirements.

See the readme.txt in the web\_app directory for details and library dependencies.