

EK2100-220

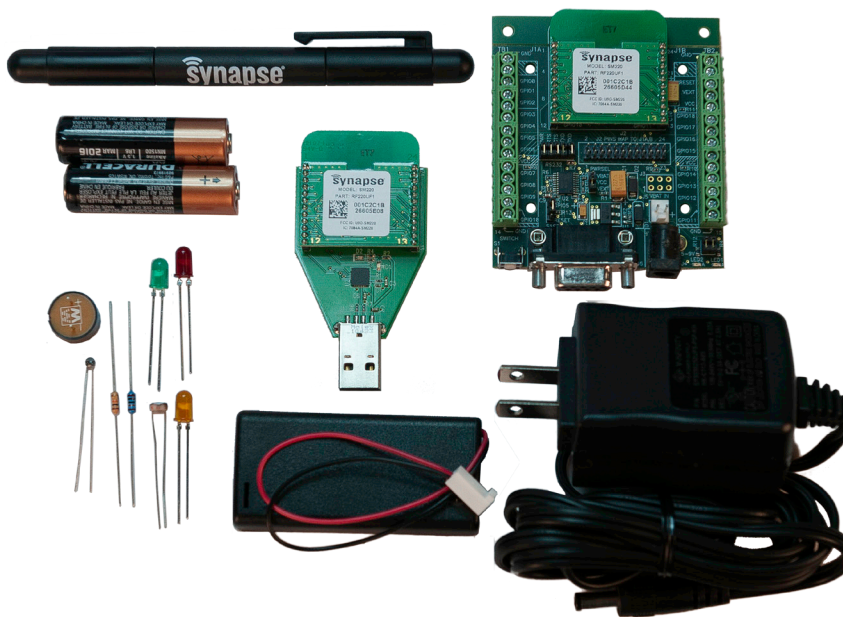
Development Kit

Get to know the world of SNAP

With the EK2100-220 development kit you will discover the exciting possibilities of adding intelligent “things” to your IoT application powered by the SNAP platform.

The kit features a series of application demonstrations that guide users through a basic SNAP network setup. It includes everything needed for a fundamental understanding of SNAP mesh networking and the capabilities of SNAP modules.

Plug in the SNAPstick, power up the ProtoBoard, and you'll quickly understand the speed and simplicity of SNAP. Rather than focus on complex networking or expensive development tools, you can focus on the application.



Features

- Complete starter kit, hardware and software – device to desktop
- Includes the Portal Software – a wireless application development environment
- Hands-on tutorials step you through the basics of connecting a physical device to a SNAP network
- Includes all required cables, power supplies, parts and connectors
- Everything you need to interactively prototype your IoT application

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The easy way to develop your Internet of Things application

The first challenge in creating an Internet of Things (IoT) application is device connectivity, so our solutions begin with the foundation of the IoT, the “things” that make up the network. The two RF220 SNAP modules included in the kit demonstrate the power of a modular node technology. With integrated radio, CPU, and FLASH memory, these modules can form the backbone of new or existing designs in a flexible form factor that reduces time from prototype to production.

SNAP allows you to program intelligence into the RF220 modules. Each module contains SNAPcore consisting of a hardware abstraction layer, a virtual machine for running scripts and a network abstraction layer. Decentralization can be especially advantageous with sensitive systems where response time is critical. Programmability provides flexibility in data collection and control methods. SNAP goes beyond mere connectivity to give you a computer at the “thing” level for processing and decision making at the network edge.

The SNAPcore automatically networks nodes to create a common communications infrastructure for Internet of Things (IoT) solutions.

When the time comes to scale an IoT application, SNAP provides the framework for managing your network of things. With SNAP you can wirelessly update scripts running on modules or reprogram the entire network should the need arise. Your solution evolves with your needs to provide a level of “future proofing” to help you remain flexible and responsive when needs change.

The kit includes:

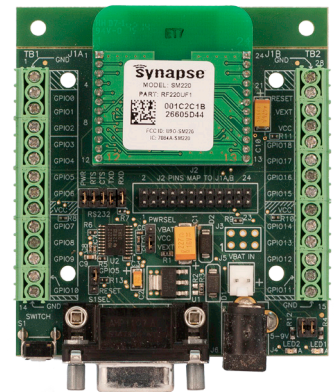
RF220 SNAP Modules

The SNAPstick and SNAP ProtoBoard come equipped with the RF220 SNAP module. Available in surface mount and through-hole form factors, SNAP modules are the link between the SNAP network and the physical world.



SN171 ProtoBoard

With terminal blocks exposing all 19 GPIO RF Engine pins, a jumper selectable RS232 port, LEDs, and pushbutton, the ProtoBoard gives you an easy and flexible platform for prototyping.



SN132 SNAPstick

The SN132 SNAPstick provides an easy way to connect a PC to a SNAP wireless network.

