



Wireless Technology to Control and Monitor Anything from Anywhere™

# Embedded Application with Internet Control

## EK2400

Synapse's EK2400 evaluation kit for Internet control of an embedded application lets you monitor and control a wireless lighting system locally or over the Internet – *right out of the box*. Experience the speed by which you can change any or all of four, high-intensity, color LEDs locally or over the Internet. You can also monitor the temperature and ambient light via sensors built onto each of the EK2400's two demonstration boards. EK2400 includes a personalized log-in to SNAPLighting.com for your Internet connection through your gateway appliance, the SNAP® Connect E10, where you can interact with your application from any web browser.



This simple-to-use web interface is designed to let you remotely perform a number of tasks:

- Turn on/off any of the four LED lights on each lighting board
- Dim any of the four LED lights on each board
- Mix the red, green, blue and white light intensities
- Read the on-board temperature sensor
- Read the self-calibrating light sensor
- Internet monitoring and control of intelligent lighting devices
- Demonstration of SNAP® operating across RF and TCP/IP links
- Complete end-to-end solution, hardware and software – device to web-browser
- No configuration necessary – devices come pre-loaded, ready to control from the web
- Internet gateway capability provided by the new SNAP connect E10
- Instructive example scripts available to demonstrate the power of SNAP



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The EK2400 kit includes two **SNAP LED demonstration boards** with four dimmable, high-intensity, color LEDs. These devices also include built-in temperature and ambient light sensors and each feature the SNAP network operating system running on an RF Engine.

SNAP is Synapse's award-winning, wireless mesh network operating system. Representing a leap forward in embedded intelligence, SNAP is built on a foundation of peer-to-peer networking and free-form RPC calls. The result is the first system in its class supporting the capability to interactively develop custom applications using a modern, dynamic programming language - Python. Develop your application wirelessly, in minutes, right before your eyes.

The **SNAP Connect E10** is a rugged, powerful, embedded connectivity appliance built to interface directly with SNAP mesh networks. The E10 can collect data from SNAP devices for centralized storage, database processing or application monitoring, making it extremely easy to view or control devices over the Internet. The E10 bridges SNAP networks across TCP/IP, without requiring firewall configuration or policy exceptions.



Our primary objective at Synapse is to move our customers from concept to wireless application deployment as quickly as possible. With the Synapse EK2400 for Internet control of an embedded application, you can experience an operational, remote lighting demonstration as soon as you power it up!

### EK2400 Kit Contents

Qty	Part No.	Description
2	SN00002	LED Demonstration Board
2	RF100PC6	RF Engine SNAP FTYPE w/ Tx amp (max range)
1	SLE10-001	SNAP Connect E10 internet gateway device
1	N/A	6 ft. Ethernet Cable
2	N/A	9V Batteries