



GainSpan Evaluation Kit

Complete Platform for Evaluating GainSpan's Wireless Single Chip and Embedded Software



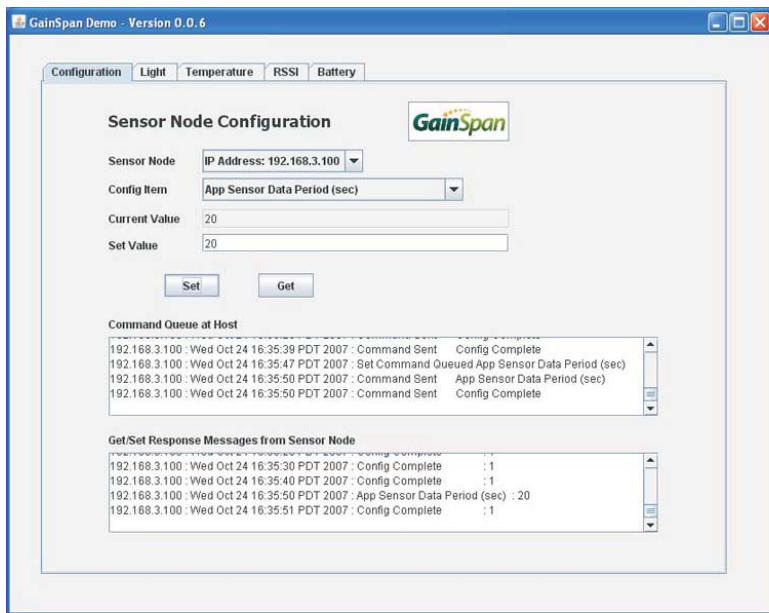
PRODUCT OVERVIEW

The GainSpan Kit offers a quick and easy way for customers to evaluate the capabilities of GainSpan's GS1011 ultra-lowpower wireless system-on-a-chip and embedded platform software for Wi-Fi* sensor networks.

The GainSpan GS1011 device is a highly integrated ultralow-power wireless system-on-a-chip (SOC) that contains a 802.11b radio, media access controller (MAC) and baseband processor, onchip flash memory and SRAM, an application processor and a rich set of peripheral I/Os all in a single small footprint package. GainSpan's platform software, embedded in the SoC device, provides a complete wireless sensor node software solution that is highly power efficient, extending battery life to several years.

GainSpan's silicon and software solution offers a highly scalable, reliable, manageable and secure wireless link to meet the growing demand of wireless sensor networks utilizing the ubiquitous Wi-Fi network infrastructure.

The Kit includes all the hardware and software required to quickly evaluate GainSpan's unique wireless sensor network technology for use in a broad range of applications in industrial, commercial, residential, healthcare, metro and other markets.



Sensor GUI for PC

FEATURES & BENEFITS

- **IEEE 802.11 Wi-Fi network solution**
 - Lowers total cost of ownership (TCO) in network implementation and management
 - Seamlessly integrates with ubiquitous Wi-Fi infrastructure for ease-of-use and reliability
 - Leverages 802.11 wireless security, manageability, and quality of service features
- **Ultra-low-power operation**
 - Extends battery life to several years
 - Enables use of low-cost battery
 - Complete silicon and software solution enables faster time-to-market
 - Ultra small form-factor reduces board space
 - Device drivers and APIs reduce customers' application software development time and cost
- **Demo application software for Windows**
 - Sensor configuration
 - Sensor data display
 - Sensor firmware update
 - Enables quick and easy demonstration and evaluation of wireless sensor node solutions using GainSpan silicon and software technology
- **Wi-Fi access point included in eval kit**
 - Enables quick and easy setup of wireless sensor for demonstration and evaluation
- **USB-to-serial cable included in eval kit**
 - Enables easy configuration from a PC host

DEMO KIT CONTENTS

- **One GS1011 based temperature and light sensor node reference board with 3.6V AA lithium battery**
- **One USB-to-serial cable for node provisioning and configuration via PC**
- **One pocket-sized 802.11b/g access point**
- **One USB memory stick containing GainSpan software and documentation**
- **Reference design schematics and BOM**
- **PC-based demo application software**

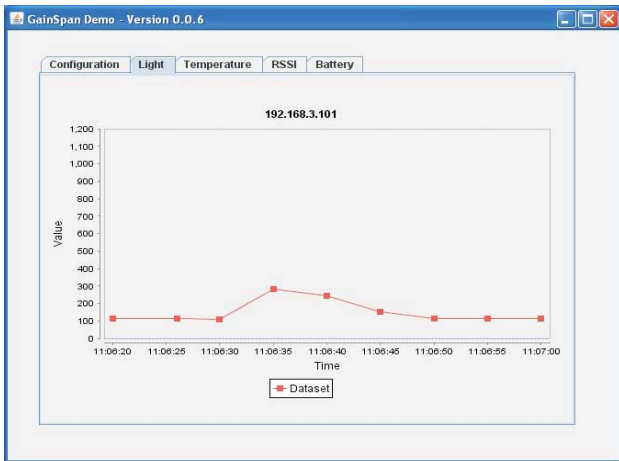


GS1011 REFERENCE BOARD SPECIFICATIONS

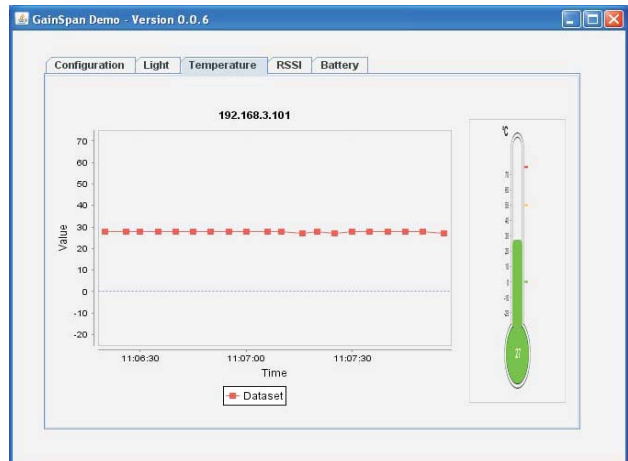
Radio Protocol	IEEE 802.11b/g compatible
RF Output Power (Typical)	9dbm with integrated power amplifier
RF Operating Frequency	2.4 - 2.497 GHz
Antenna Specifications	2.45GHz, 50-ohm monopole with SMA connector
Sensor Types	Temperature and light
I/O Port	6-pin serial UART interface, 15540 compatible Cable to connect to host PC USB port included
Power Source	3.6V, 2100mAh Lithium battery size AA (included)
Physical Dimensions	Length: 2.36 in, Width: 1.39 in, Height: 1.04 in

GSDemo SOFTWARE

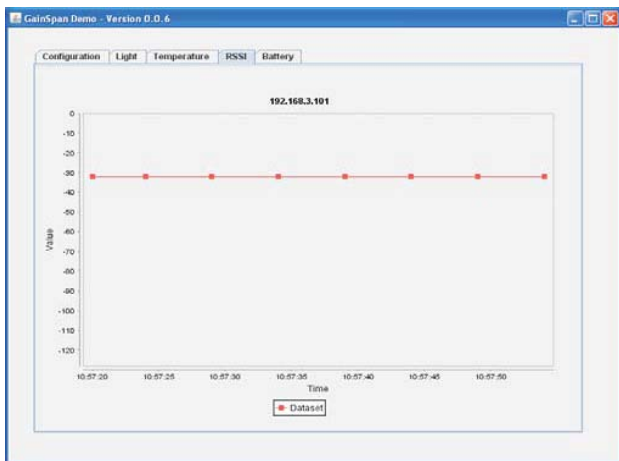
The Kit comes complete with all the hardware and software necessary to quickly set up a wireless sensor network for monitoring temperature and light data. It includes the *GSDemo* software for displaying incoming data for:



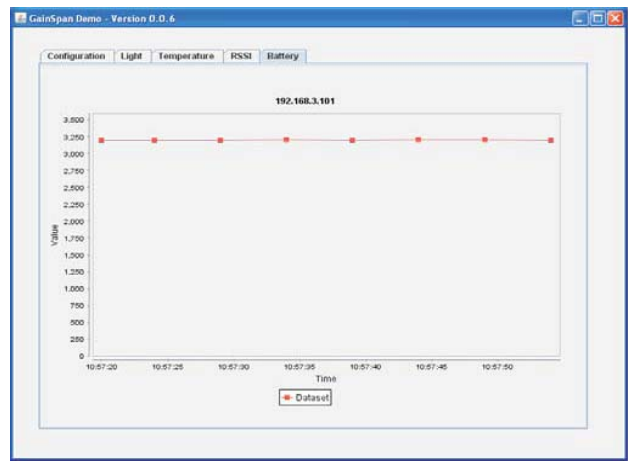
Light Level



Temperature Level



Signal Strength



Battery Strength

