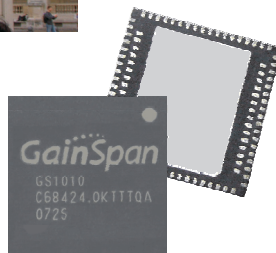


GainSpan™

*Bringing Wi-Fi® Sensor
Networks to Life*



**PRODUCTS FOR
ULTRA-LOW-POWER
EMBEDDED
APPLICATIONS**



BUILDING AUTOMATION

- ▶ **Green Building Management**

INDUSTRIAL

- ▶ **Process Monitoring**
- ▶ **Machine Condition Monitoring**

RESIDENTIAL

- ▶ **Advanced Meter Reading**
- ▶ **Energy Demand Management**

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GS1010 FEATURES & BENEFITS

- ▶ Highly-integrated wireless SoC reduces system cost of implementing separate devices and lowers design complexity.
- ▶ Ultra-small form factor reduces board space.
- ▶ Lowers total cost of ownership (TCO) in network implementation and management.
- ▶ Seamlessly integrates with existing 802.11 b/g infrastructure and utilizes the 802.11 security, manageability, ease-of-use, and quality of service.
- ▶ Enterprise-level security & reliability for sensor networks.
- ▶ Optimized for battery-powered applications with very low power consumption for many years of battery life.
- ▶ IEEE 1588 to provide precision clock synchronization over the network.
- ▶ Location awareness to enable tracing and monitoring of assets (TDOA and RSSI).
- ▶ Multiple I/Os provide flexibility in system design for easier integration.
- ▶ Firmware, device drivers, reference application software, APIs, and SDK to reduce development time of application software and enable faster time to market.

GS1010 ULTRA-LOW-POWER WIRELESS SYSTEM-ON-CHIP

GainSpan's GS1010 is a highly-integrated, ultra-low-power wireless system-on-a-chip (SoC). The GS1010 SoC enables the building of wireless sensor nodes with battery life up to ten years. It includes a media access controller (MAC) and baseband processor, on-chip flash memory and SRAM, an applications processor, and a rich set of peripheral I/Os, all in a single, small footprint, 10mm x 10mm x 0.85mm QFN package.

The chip offers a highly-scalable, reliable, manageable, and secure wireless link to meet the growing demand of wireless sensor networks utilizing the broadly accepted IEEE 802.11 standards infrastructure.

GainSpan's GS1010 is the state-of-the-art component for your embedded Wi-Fi applications.

GS1010 EVALUATION KIT

GainSpan's GS1010 Evaluation Kit offers a quick and easy way to evaluate the capabilities of GainSpan's GS1010 ultra-low-power wireless system-on-chip (SoC) and embedded platform software for Wi-Fi networks.

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 *GS Demo* software for displaying incoming data for light, temperature, node signal strength, and battery voltage level.

GS1010 SOFTWARE DEVELOPMENT KIT

The GainSpan GS1010 Software Development Kit (SDK) supports rapid development of hardware and application software for Wi-Fi sensors based on GainSpan's GS1010 ultra-low-power wireless system-on-a-chip (SoC).

GainSpan's platform software, embedded in the GS1010 SoC, provides a complete wireless sensor

node software solution that is highly power-efficient, extending battery life to several years.

The GS1010 Software Development Kit is a professional development platform that enables in-depth software and hardware design and debug.

GAINSPAN MANAGEMENT SYSTEM

The GainSpan Management System server software intelligently aggregates management and control requests and responses from the enterprise management systems and communicates with the sensor nodes to actively listen for configuration messages or firmware updates whenever they come on.

The GMS is designed from the bottom up to be a fault tolerant system on the industrial or enterprise network. Built-in clustering and cache mirroring features facilitate seamless failover in the event of any detected fault.

The GMS uses standards-based SNMP, XML, and CORBA interfaces to integrate seamlessly with existing enterprise systems.

**GainSpan Brings Wi-Fi
Sensor Networks to Life!**