



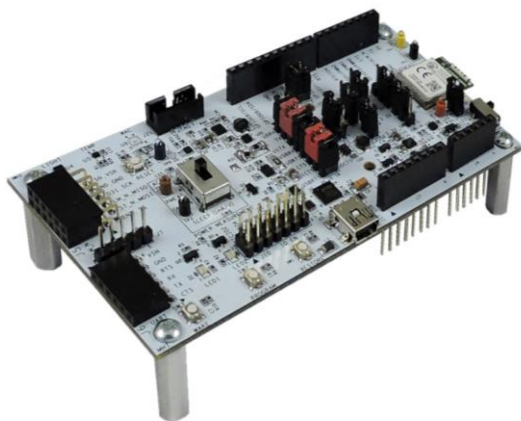
## GS2200M SKB Hostless HomeKit Development/Evaluation Kit

### PRODUCT OVERVIEW

The GainSpan Hostless HomeKit Application Development Kit (ADK) is an evaluation and developer platform supporting Apple's HomeKit framework. Based on the GS2200M module and associated Starter Kit Board (SKB), this developer platform supports all profiles and services defined in Apple's HomeKit Accessory Protocol (HAP), release R7 specification, and has completed Apple's Adjunct Review certification process. The SKB and embedded software application supports Bonjour discovery and secure provisioning using Apple's Wireless Authentication Co-processor (WAC). The hardware Platform includes onboard temperature and light sensors and Apple's WAC chip, pre-installed. The Application Evaluation Kit (AEK) includes a pre-installed firmware binary for demonstration of the embedded HomeKit application. The ADK and AEK are available only for customers who are verified Apple MFi licensees.

GainSpan has developed all the embedded networking and application software that operates internal to the Wi-Fi module. The GS2000 Low Power Wi-Fi SoC and associated GS2200M module has sufficient internal CPU and memory resources to execute all platform software including hosting the HomeKit application without the need for an external MCU in the system. The SKB and application software provide a HomeKit development platform, from which users can build end-product accessories using the embedded software APIs and supported HomeKit services.

GainSpan's successful completion of Apple's Adjunct Review (AR) process ensures that HomeKit Accessory developers can reduce their time-to-market by developing their end-product on top of an Apple HomeKit-certified solution.



### BENEFITS:

**Complete reference design allows developers to evaluate HomeKit accessory profiles and services for Wi-Fi based end products**

**Solution utilizes internal CPU and memory resources to execute platform software and HomeKit application, which eliminates the need for an external system MCU**

**Accelerated time-to-market for HomeKit-compatible accessories development, such as smoke detectors, fans, garage door openers and more**

**Support for all accessory profiles and services featured in the Apple's HomeKit Accessory Protocol (HAP) specification, release version R7**

**A reference solution which has completed the HomeKit Adjunct Review certification process by Apple**

### FEATURES:

**SKB provides HomeKit demo support for two installed services**

**Temperature Sensor Accessory Service – This service is supported by an installed temperature sensor device on the SKB**

**Light Sensor Accessory Service – This service is supported by an installed light sensor device on the SKB**

**Supported Demo Application invokes a "virtual" HomeKit Test Harness to demonstrate and evaluate all supported HAP services in Apple's R7 specification version**

### HOSTLESS HOMEKIT ADK AND AEK PACKAGE CONTENTS

| Components                            | ADK                                 | AEK                           |
|---------------------------------------|-------------------------------------|-------------------------------|
| HomeKit Embedded Firmware Application | Binary and source                   | Binary only                   |
| HomeKit User's Documentation          | Quick Start Guide, User Guide & API | Quick Start Guide, User Guide |
| GainSpan HomeKit Evaluation Board     | Hardware                            | Hardware                      |
| USB Cable                             | Hardware                            | Hardware                      |

### GAINSPAN HOSTLESS HOMEKIT HARDWARE COMPONENTS

| Components                 | Description  |
|----------------------------|--|
| GainSpan Wi-Fi Module      | GS2200M module supports 802.11 b/g/n   |
| Authentication/Security    | Apple Wireless Authentication Co-Processor (WAC) IC installed                  |
| HomeKit Accessory Hardware | On-board Temperature Sensor device<br>On-board Light Sensor device             |
| LEDs                       | Indicates power-on, operation mode (limited AP or client) and Run/Program mode |
| USB port                   | Used to power the board and upgrade firmware on the Wi-Fi module               |

### HOSTLESS HOMEKIT APPLICATION DEVELOPMENT MINIMUM REQUIREMENTS

| Requirements                       | Type                           |
|------------------------------------|--------------------------------|
| GainSpan SDK                       | Software source, tools         |
| Verified Apple MFi Program License | Developer's License from Apple |

### HOSTLESS HOMEKIT ORDERING INFORMATION

| Item            | Part Number                 | Description  |
|-----------------|-----------------------------|--|
| GainSpan HK AEK | GS-ADK-HomeKit-Hostless-WAC | GainSpan Hostless HomeKit AEK Wi-Fi modules                  |
| GainSpan HK AEK | GS-AEK-HomeKit-Hostless-WAC | GainSpan Hostless HomeKit AEK based on GS2200M Wi-Fi modules |

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Release 1.0

