



## GS2200M 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 modules and associated Evaluation Boards (EVB), 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 EVB and embedded software application supports Bonjour discovery and secure provisioning using Apple's Wireless Authentication Co-processor (WAC). The hardware Platform includes 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 EVB 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:

**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's Guide & API's	Quick Start Guide, User's Guide & API's
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
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	GainSpan SDK
Verified Apple MFi Program License	Developer's License from Apple

**HOSTLESS HOMEKIT ORDERING INFORMATION**

Items	Part Numbers	Description
GainSpan HK ADK	GS-ADK-HomeKit-Hostless-WAC	GainSpan Hostless HomeKit ADK based on GS2200M
GainSpan HK AEK	GS-AEK-HomeKit-Hostless-WAC	GainSpan Hostless HomeKit AEK based on GS2200M

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