



GS2200M Hosted HomeKit Development/Evaluation Kit



PRODUCT OVERVIEW

The GainSpan Hosted HomeKit is an evaluation and developer platform supporting Apple's HomeKit framework. Based on the GS2200M modules and associated Evaluation Boards (EVB), this developer's 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 AEK is 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 as well as host the HomeKit application. All Hosted HomeKit related services and profiles are accessed via a set of simple AT commands issued over a serial interface from an external system controller provided by the user. The EVB and embedded application software provide a HomeKit development platform, from which users can build their end-product accessories using the defined set of HomeKit serial AT commands.

GainSpan's successful completion of Apple's Adjunct Review (AR) process assures 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

Simple AT commands issued over serial interface from an external controller to implement all supported HomeKit services and accessory profiles.

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

Supports all accessory profiles and services featured in Apple's HomeKit Accessory

Protocol (HAP) specification, release version R7 Reference solution has completed HomeKit Adjunct Review certification process by Apple

FEATURES:

Supported set of serial AT commands invoke a "virtual" HomeKit Test Harness to demonstrate and evaluate all supported HAP services in Apple's R7 specification version.

HOSTED HOMEKIT AEK PACKAGE CONTENTS

Components	AEK
HomeKit Embedded Firmware Application	Binary only
HomeKit User's Documentation	Quick Start Guide, User Guide & AT Commands
GainSpan HomeKit Evaluation Board	Hardware
USB Cable	Hardware

GAINSPAN HOSTED 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

HOSTED HOMEKIT APPLICATION DEVELOPMENT MINIMUM REQUIREMENTS

Requirements	Type
External Controller and serial hardware interface	External MCU or PC
Verified Apple MFi Program License	Developer's License from Apple

HOSTED HOMEKIT ORDERING INFORMATION

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

Copyright © 2017 GainSpan Corporation. All rights reserved. Trademarks and registered trademarks are the property of their respective owners.

GS2200MXX-Hosted-HK-AEK-PB-00127

Release 1.0

