HDG200 based PCB modules Product Family Application Note

1 Preface

This document explains the relationship and applications for the products in the HDG200 WiFi SiP family.

1.1 Overview

HDG200 is a complete WLAN System In Package, SIP, solution specifically designed to address the proliferation of Wi-Fi technology into embedded devices. The HDG200 can be equipped with different software implementations for different applications. When mounted on a PCB with EMC shield and antenna in becomes a complete FCC certifiable module. SPBxxx

SPB820P is a SMD module with the all the required additional components on a single module. It is a complete solution designed to be function as a standalone communication module, serial cable replacement or as an easy to use WLAN addition with a minimal resource need, to an existing system.

The SPB820P offloads the IP-stack and the WiFi-handling code from the host to drastically reduce memory footprint and MCU requirements for adding WiFi to a host system. The user can import the small oWL-pico driver to the host MCU and issue high level commands from the host.
The SPB80P has an on board chip antenna with a peak gain of 3.5dBi

2 HDG200 Based products

The HDG200 hardware is programmed in production with different firmware to function with different types of host processors. To separate the different products from each other the combination HDG200 + firmware is given a new product name.

Product name	Host type	Comment
SPB200	Linux host MPU	
SPB205	Embedded MCU	32-bit system
SPB820P	Host with Pico^{TM} client	Down to 8-bit MCUs
SPB840	None	Stand alone, sensor
SPB860	None	Stand alone, audio