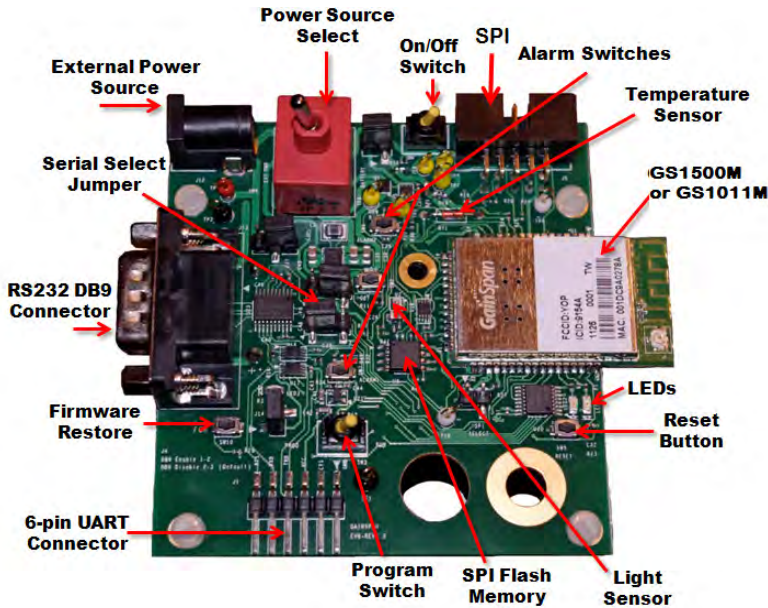# GainSpan GS1011M / GS1500M Evaluation Board Mrk II

PRODUCT OVERVIEW

The GS1011M/GS1500M Evaluation Board supports the GS1011M (802.11b) or GS1500M (802.11b/g/n) module family which provides customers the mean to evaluate the capabilities of GainSpan's ultra-low power wireless solutions for Wi-Fi networks. The Serial to Wi-Fi embedded software on the modules allows devices and appliances manufacturers to easily add Wi-Fi capabilities to their products with minor impact on the host microcontroller firmware.

The evaluation board comes with pre-loaded serial to Wi-Fi firmware that supports a Limited AP mode, with built-in web-server for provisioning the device. The evaluation board works in conjunction with the serial to Wi-Fi evaluation kit software and firmware.

The evaluation board has various jumpers, switches, push buttons and LED's that provide support for evaluating different features and configuration based on the firmware loaded from the evaluation kit.. For details see the product briefs of the GS1011M or GS1500M modules.

EVALUATION BOARD DETAILS:

Feature	Description
Radio Protocol	IEEE 802.11b/g/n
RF Module(s)	GS1011M (802.11b) or GS1500M (802.11b/g/n)
Radio Frequency	2.4 – 2.497 GHz
Antenna Type	On-board PCB Trace or External (u.FL)
I/O Port	6-pin serial UART (3.3V TTL), RS232 DB9 Connector, SPI Connector
LED	2 LED's to indicate state
Memory	External SPI Flash Memory for Firmware Upgrade and Restore
Switches	Push button for Alarms, Reset, WPS, and Configuration
Program Switch	For programming the module
On/Off Switch	Power on/off switch
Serial Select Jumper	Jumper to select between UART or RS232 interface or SPI
Sensors	Temperature and Light
Power Source	Battery or External Power Adapter
Battery	Two 1.5V AA Battery (Alkaline or Lithium) Lithium is recommended for longer battery life
Power Source Select	Select power source as either battery or external power adapter
Power Adapter	3.3V
Dimensions (in)	3.5 x 3.0 (includes module and RS232 connector)

EVAL BOARD ORDERING INFORMATION

PART NUMBER	Description
GS1011MIP-EVB2-S2W-WEB	Serial to Wi-Fi Evaluation Board with – GS1011MIP module
GS1011MIE-EVB2-S2W-WEB	Serial to Wi-Fi Evaluation Board with – GS1011MIE module
GS1011MEP-EVB2-S2W-WEB	Serial to Wi-Fi Evaluation Board with – GS1011MEP module
GS1011MEE-EVB2-S2W-WEB	Serial to Wi-Fi Evaluation Board with – GS1011MEE module
GS1500M-EVB-S2W-WEB	Serial to Wi-Fi Evaluation Board with – GS1500M module

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