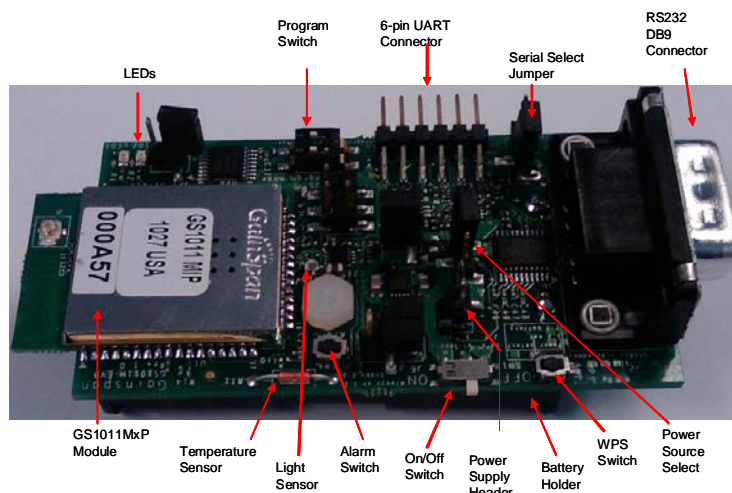**GainSpan**®

GainSpan GS1011MxP Serial to Wi-Fi ® Evaluation Board

PRODUCT OVERVIEW

The GS1011MxP Serial to Wi-Fi Evaluation Board includes the GS1011M module which provides customers the mean to evaluate the capabilities of the GS1011 ultra-low power wireless system-on-a-chip and the Serial to Wi-Fi embedded software for Wi-Fi networks. The Serial to Wi-Fi embedded software 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 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. The evaluation board supports both the internal PA (GS1011MIP) and external PA module (GS1011MEP) option. For details see the product brief of the GS1011M modules.

EVALUATION BOARD DETAILS:

Feature	Description
Radio Protocol	IEEE 802.11b
RF Module	GS1011MIP or GS1011MEP
RF Output Power (Typical)	9 dBm with GS1011MIP18 dBm with GS1011MEP
Radio Frequency	2.4 – 2.497 GHz
Antenna Type	On-board PCB Trace
I/O Port	6-pin serial UART (3.3V TTL) RS232 DB9 Connector
LED	2 LED's to indicate state
WPS Switch	Push button for Wi-Fi Protected Setup
Alarm Switch	Push button for Alarm and configuration
Program Switch	For programming the GS1011M module
On/Off Switch	Power on/off switch
Serial Select Jumper	Jumper to select between UART or RS232 interface
Sensors	Temperature and Light
Power Source	Battery or Lab DC power supply
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 lab DC power supply
Power Supply Header	Jumper posts for connecting Lab DC power supply
Power Source Range	3.6V to 2.7V
Dimensions (in)	3.57 x 1.75 x 1.2

EVAL BOARD ORDERING INFORMATION

PART NUMBER	Description
GS1011MIP-EVB-S2W-WEB	Serial to Wi-Fi Evaluation Board with – GS1011MIP module (Internal PA and on-board PCB Antenna)
GS1011MEP-EVB-S2W-WEB	Serial to Wi-Fi Evaluation Board with – GS1011MEP module (External PA and on-board PCB Antenna)

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