



SG923-0012

1059B Modules Evaluation Kit

Overview

SG923-0012 is an Evaluation Kit used to simplify the rapid evaluation and software integration of the SG901-1059B Radio Modules. The EVK allows for easy access to a USB interface via a standard USB connector cable.

The Kit consists of one of four different SG901-1059B Modules, an antenna assembly, and a USB assembly cable with 4 versions.

- Version 3.3-C includes a USB cable that provides 5 to 3.3 voltage regulation (due to the USB standard voltage supply). The other end of the cable has a connector.

- Version 5.0-C includes a USB cable with a connector. The 1059B 5.0-C Module has an internal regulator.

- Version 3.3-H includes a USB cable that provides 5 to 3.3 voltage regulation (due to the USB standard voltage supply). The other end of the cable has a 2mm socket for the header.

- Version 5.0-C includes a USB cable with a 2mm header socket. The 1059B 5.0-H Module has an internal regulator.

Please refer to the SG901-1059B Wireless USB Module Data sheet for the four different Module offerings and the Sagrad Web site, www.sagrad.com for installation instructions.

Features

- Easy to connect to a standard USB port
- 802.11g: 6, 9, 12, 24, 36, 48, 54Mbps
- 802.11n:
 - (20MHz) MCS0-7, Support up to 72 Mbps
 - (40MHz) MCS0-7, Support up to 150Mbps
- OFDM, Peak rate 150Mbps
- Security support for 64/128 WEP, WPA, WPA2, TKIP, AES
- Operates in 2.4GHz frequency bands
- Low Power Consumption
- Single antenna configuration; I-PEX receptacle for external antenna

Applications

- Personal Digital Assistants (PDA)
- Hand-held Data Transfer Devices
- Video
- IP Cameras
- IP set top box
- GPS
- Internet radio apparatus

Ordering Information

SG923-0012-3.3-C (connector) – Bulk only
SG923-0012-5.0-C (connector) – Bulk only
SG923-0012-3.3-H (header) – Bulk only
SG923-0012-5.0-H (header) – Bulk only



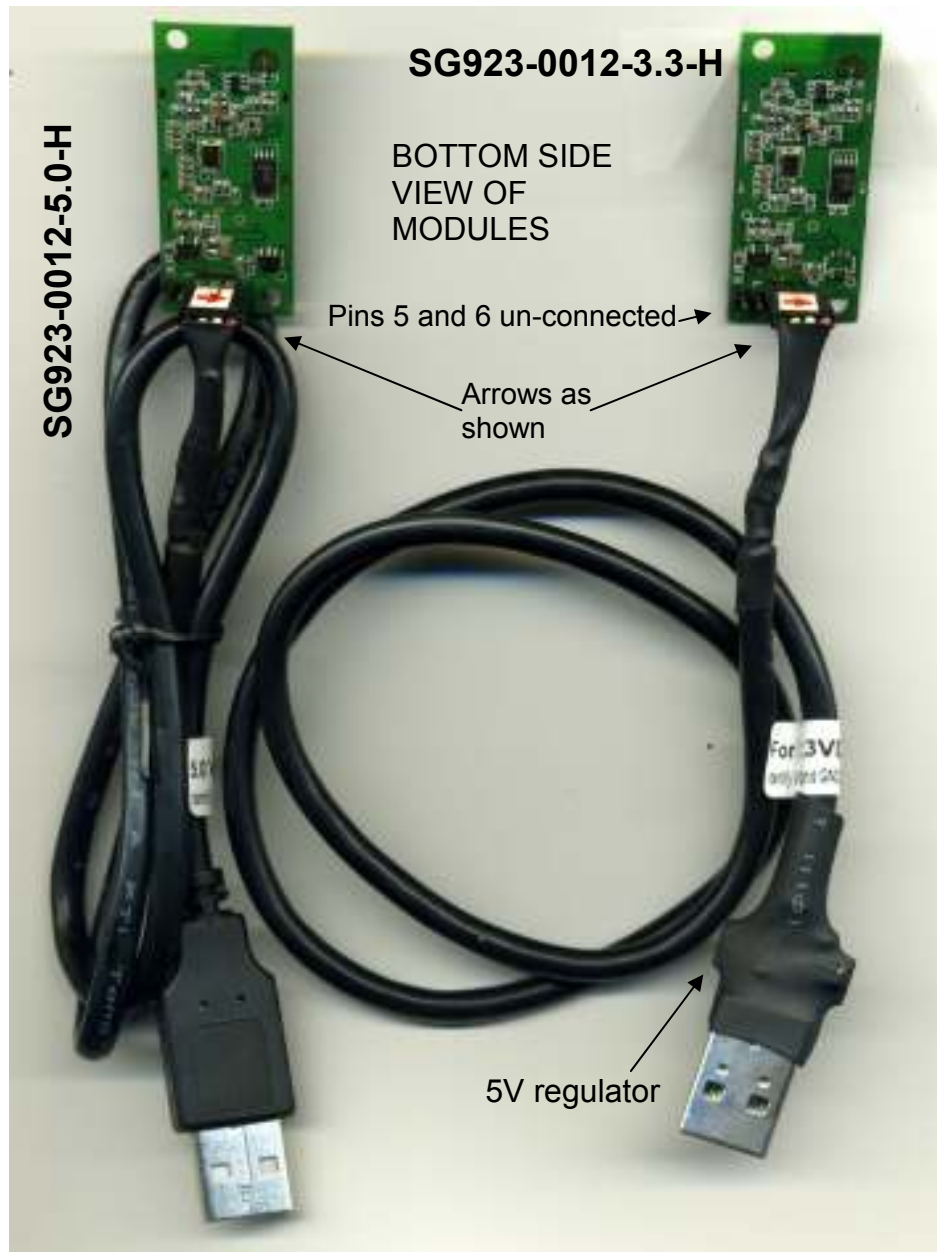
Modules that include a connector interface.



Note: Preliminary version as PC board pictures do not reflect the 1059B version module. Picture shown for the old 1059 version. The outline and connections are the same.



Modules that include a 2mm Header



Note: Preliminary version as PC board pictures do not reflect the 1059B version module. Picture shown for the old 1059 version. The outline and connections are the same.





Connector Pin List (Host Interface)

6-pin 1.0mm pitch connector

| SIGNAL NAME | PIN NUMBER | DESCRIPTION | NOTES |
|----------------------|------------|------------------------------------|-----------------------|
| VCC (3.3 or 5.0 VDC) | 1 | Supply | USB Standard Function |
| UD- | 2 | Complementary USB Data | USB Standard Function |
| UD+ | 3 | Complementary USB Data | USB Standard Function |
| GND | 4 | Ground | USB Standard Function |
| LED | 5 | Low Active for WLAN LED Link. | |
| TX | 6 | Low Voltage to disable RF function | |

6-pin 2.0mm pitch male header

| SIGNAL NAME | PIN NUMBER | DESCRIPTION | NOTES |
|----------------------|------------|------------------------------------|-----------------------|
| VCC (3.3 or 5.0 VDC) | 1 | Supply | USB Standard Function |
| UD- | 2 | Complementary USB Data | USB Standard Function |
| UD+ | 3 | Complementary USB Data | USB Standard Function |
| GND | 4 | Ground | USB Standard Function |
| TX | 5 | Low Voltage to disable RF function | |
| LED | 6 | Low Active for WLAN LED Link. | |



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