



## SG923-0008

# 1059 Modules Evaluation Kit

### Overview

SG923-0008 is an Evaluation Kit used to simplify the rapid evaluation and software integration of the SG901-1059 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 SG901-1059 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 1059 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 1059 5.0-H Module has an internal regulator.

Please refer to the SG901-1059 Wireless USB Module Data sheet for the four different Module offerings and the Sagrad Web site, [www.sagrad.com](http://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

SG923-0008-3.3-C (connector) – Bulk only  
SG923-0008-5.0-C (connector) – Bulk only  
SG923-0008-3.3-H (header) – Bulk only  
SG923-0008-5.0-H (header) – Bulk only

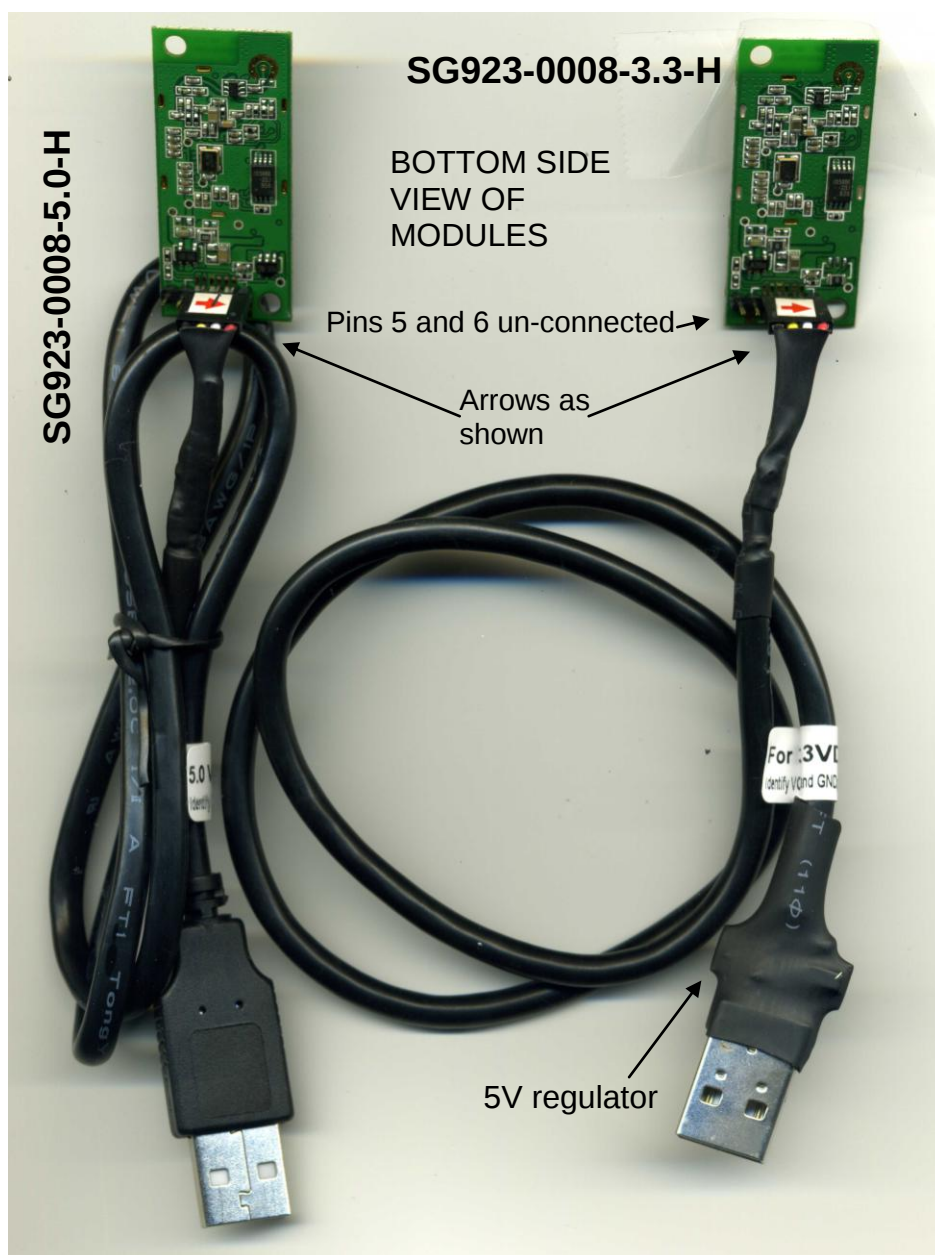


## Modules that include a connector interface.





## Modules that include a 2mm Header





## 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.      |                       |