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 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
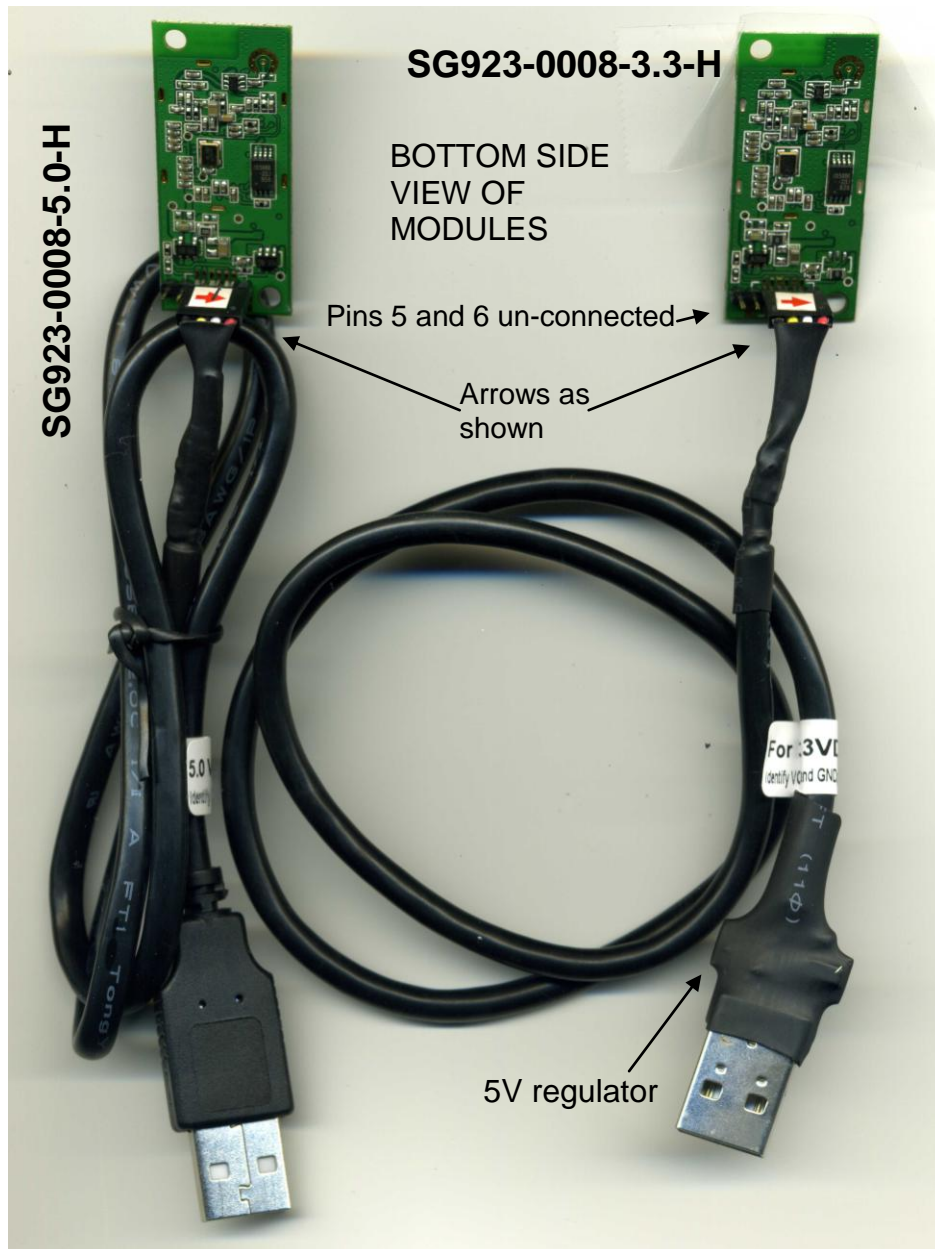SG923-0008-5.0-H (header) – Bulk only

Modules that include a connector interface.

SG923-0008-5.0-C

SG923-0008-3.3-C

5V regulator

TOP SIDE VIEW OF BOTH CONNECTORIZED MODULES

Antenna Connectors

Modules that include a 2mm Header

SG923-0008-3.3-H

SG923-0008-5.0-H

BOTTOM SIDE
VIEW OF
MODULES

Pins 5 and 6 un-connected

Arrows as
shown

5V regulator

Antenna Assembly, I-PEX connector

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
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