Inventek Systems



eS-WiFi

ISM43362-M3G-EVB

Quick Start Guide

Inventek Systems eS-WiFi ISM43362-M3G-EVB Quick Start Guide – Rev. 2

Installing the Inventek Systems ISM43362-M3G-EVB Evaluation Board

 BEFORE you plug the board into your computer download and install the eS-WiFi PC demo software and Drivers: http://www.inventeksys.com/wpcontent/uploads/Inventek_Systems_eS-

WiFiDemo_v1.4_b2.zip

- 2. Save the eS-Wifi Demo.zip.
- 3. Unzip.
- 4. Run as <u>Administrator.</u>



- a. The board has two com ports. USB-JTAG and Broadcom USB serial port
- b. Use the Broadcom USB serial port as indicated by the arrow in the above photo of the EVB.

The ISM43362-M3G-EVB connects to the PC with a USB cable. The USB interface provides +5V power as well as individual programming and UART interfaces to the STM32F205 host processor (on the ISM43362-M3G-L44 module).

The USB driver for the ISM43362-M3G-EVB Evaluation Board is provided in the above download. Once you install the above software you can select Menu>Install Drivers on the eS-WiFi Demo to pre-install the drivers then plug-in the board.

Open the following documents to start testing:

- a. **EVB_Users_Manual.pdf**
- b. AT Command Set Quick Reference Guide
- c. AT Command Set User's Manual

We recommend that you use the eS-WiFi <u>Demo Software Help</u>, that will explain the driver installation. (Manual installation instructions are also shown in the appendix of this document.)

5. Use the eS-WiFi demo software setup menu to configure the UART. (Setup – Serial Port – Configure/Open)

Serial Port	COM22	-
Baud Rate	115200	•
Parity	None	÷
Data Width	8	
Stop Bits	1	•

- a. Identify serial Com port from Device Manager , e.g. COM22
- b. Set Baud rate to 115,200
- c. 8 Data bits, 1 Stop bit , Parity None, and Flow control None

(The other option is to use a terminal program such as Hyperterminal, PuTTY (http://putty.org) or similar program on your PC.) 6. Press the reset button on the ISM43362-M3G-EVB evaluation board and the following will appear:

Invente	ek Systen	ns eS-WiFI Dem	0						X
Menu	Setup	CMD Mode	GPIO	Protocol	Send/Receive	Status	Network	Applications	Help
>	(=	Embedding Co	ventek Connect pyright	Systems tivity Eve t (c)2011	erywhere				•
								SE	ND

7. The AT Command interpreter is loaded on the ISM43362-M3G-EVB.

Type ? to view the available commands.

8. For additional information refer to the following documentation from Inventek Systems:
ISM43362-M3G-EVB Evaluation Board Specification
AT Command set
eS-WiFi Demo software (includes EVB Drivers)
EVB Users Guide
Quick Start Guide
OrCAD Schematic Symbol
PADS Land Pattern
ISM43362-M3G-L44 Functional Specification
FCC Test Report
NDA/ SLA documents

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Appendix: Manual Installation Instructions:

NOTE: Driver installation occurs in THREE stages, each stage is described in the following text.



Plug the ISM43362-M3G-EVB into the development PC. The Found New Hardware Wizard window appears.

Now perform the follow actions:

• Select the checkbox : No, not this time



Click Next.

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In the next window, perform the following actions.

- Verify that the driver installation is for BCM9WCD1EVAL1
- Select the checkbox : Install from a list or specified location (Advanced).
- Click Next

Found New Hardware Wizard					
Please choose your search and installation options.					
Search for the best driver in these locations.					
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.					
Search removable media (floppy, CD-ROM)					
Include this location in the search:					
C:\WICED-SDK-0.4\DriverC:\Program Files\\eS-Wifi\drivers					
O Don't search. I will choose the driver to install.					
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.					
< <u>Back</u> <u>N</u> ext> Cancel					

In the next window, perform the following actions.

- Check the radio button : Search for the best driver in these locations
- Click the checkbox : Include this location in the search:
- Enter the path to the directory : C:\Program Files\Inventek Systems\eS-WiFi\drivers
- Click Next

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A further window displays indicating that the driver has been installed for the BCM9WCD1EVAL1 A device (corresponding to the USB-JTAG device). There are two devices on the BCM9WCD1EVAL1 board, a USB-JTAG device (device A) and a USB-UART device (device B).

Found New Hardware Wizard				
	Click Finish to close the wizard			
	A Back Finish Cancel			

Click Finish

After a short delay, another Found New Hardware Wizard window opens. Install the driver for the BCM9WCD1EVAL1 B device using the same procedure as the BCM9WCD1EVAL1 A device. If a Windows Logo Testing window appears, click Continue anyway.

Once the BCM9WCD1EVAL1 B device driver is installed, a serial port driver must be installed. The serial port driver makes the USB-Serial interface appear to Windows[®] as a standard COM port. Follow the same procedure outlined for the BCM9WCD1EVAL1 A and B devices to install the serial port driver. Again, if a Windows Logo Testing window appears, click Continue anyway.

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After the driver is successfully installed, a Broadcom USB-JTAG Device and a Broadcom USB Serial Port appear in the Windows[®] Device Manager as shown in the following screen capture. Take note of the USB serial COM port number for later use (it may not be COM3).

Note: The Hardware Device Manager may be accessed quickly from the System Properties window by simultaneously pressing the Windows + Pause keys.



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