

AMW004 Evaluation Guide



AMW004-E02 'Marlin'



AMW004-E03 'Mackerel'



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About this User Guide

This guide provides information and basic usage instructions for the WiConnect serial Wi-Fi application and the AMW004 'Wallaby' module available from ACKme Networks.

Evaluation boards covered by this guide include:

- AMW004-E02 'Marlin with Hornet' (Revision 2)
- AMW004-E03 'Mackerel' (Revision 1)

Further information about WiConnect is available in the WiConnect Reference manual online at:

http://wiconnect.ack.me

Organization

This document is organized into the following sections:

- Introduction, Section 1
- Feature Identification, Section 2
- Using WiConnect, Section 3
- Ordering Information, Section 4
- Revision History & Glossary, Section 5
- Appendix A Setting up a Terminal Emulator
- Appendix B Evaluation Board Schematics



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1 Introduction

The AMW004 'Wallaby' module is a fully certified small form factor, low power WICED-based Wi-Fi networking module perfectly suited to deeply embedded applications requiring medium/high data throughput in medium to high volume.

The module runs WiConnect firmware, ACKme Networks easy-to-use and reliable serial Wi-Fi networking application that includes an embedded TCP/IP networking stack with SSL/TLS/HTTPS security.

Evaluation of WiConnect and the AMW004 module is available with the AMW004-E02 'Marlin' evaluation board, or the AMW004-E03 'Mackerel' evaluation board. The evaluation boards are shown in Figure 1 and a feature comparison of the boards is provided in Table 1.

Figure 1. AMW004 Evaluation Boards



AMW004-E02 'Marlin' (with AMW004-A01 through-hole module adapter)



AMW004-E03 'Mackerel' (with AMW004 surface mount module)

Table 1. AMW004 Evaluation Board Feature Comparison

Feature	AMW004-E02 'Marlin'	AMW004-E03 'Mackerel'
Product Number	AMW004-E02 (AAE001 + AMW004-A01)	AMW004-E03
Module style	Pluggable module adapter	Surface mount
Serial Interface	USB-UART	USB-UART
Power supply	from USB	from USB
User LEDs	2	2
User Buttons	2	2
Reset Button	Υ	Υ
Expansion Headers	2 x 10	2 x 20



Note! Customers that wish to evaluate the AMW004 module using Broadcom WICED should obtain an alternate evaluation board that provides AMW004 program and debug capability. Information about the AMW004-E01 'Snapper' WICED eval board is available at http://ack.me/products/AMW004_E01_Snapper



2 Feature Identification

2.1 AMW004-E02 'Marlin'

The Marlin evaluation board assembly is in fact comprised of two separate boards that are plugged together. The through-hole AMW004 module adapter (AMW004-A01) plugs directly into the bare evaluation board (AAE001). Schematics for both boards are provided in Appendix B.

Figure 2. AMW004-E02 Features

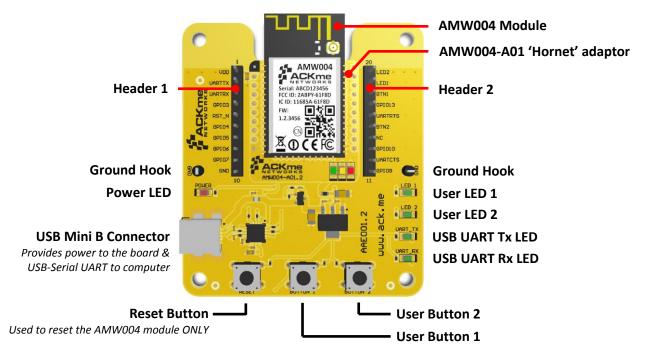


Table 2. AMW004-E02 Expansion Header Connections

AMW004	Hornet	Marlin	Pin #
VDD_3V3	VDD_3V3	VDD_3V3	1
GPIO_14	USART1_TX	USART1_TX	2
GPIO_13	USART1_RX	USART1_RX	3
GPIO_19 ¹	SPI_MISO	GPIO_3	4
RESET_N	RESET_N	RESET_N	5
GPIO_26	GPIO_4	GPIO_4	6
GPIO_25	GPIO_5	GPIO_5	7
GPIO_22	GPIO_6	BUTTON_1 ³	8
GPIO_21	GPIO_7	GPIO_7	9
GND	GND	GND	10

Pin#	Marlin	Hornet	AMW004
20	LED_2	GPIO_28	GPIO_28
19	LED_1	GPIO_27	GPIO_27
18	GPIO_14 ³	SPI_SCK	GPIO_17 ¹
17	GPIO_13	SPI_CS	GPIO_20 ¹
16	USART1_RTS	USART1_RTS	GPIO_15
15	BUTTON_2	GPIO_12	GPIO_12
14	-	GPIO_24	GPIO_24 ²
13	GPIO_10	GPIO_10	GPIO_0
12	USART1_CTS	USART1_CTS	GPIO_16
11	GPIO_8	SPI_MOSI	GPIO_18 ¹

Notes

- 1 Connection to AMW004 is via a 220R resistor
- 2 Not connected to AMW004 by default. R8 must be populated with a OR link to make the connection.
- 3 The silkscreen is WRONG! Button 1 is actually connected to Pin 8 of the expansion header.



2.2 AMW0043-E03 'Mackerel'

The Mackerel evaluation board comes complete with a surface mount AMW004 'Wallaby' module. Each pin on the Wallaby module is connected to the expansion header. Schematics for the board are provided in Appendix B.

Figure 3. AMW004-E03 Features

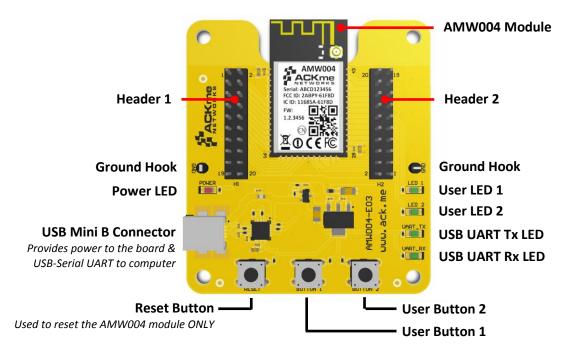


Table 3. AMW004-E03 Expansion Header Connections

AMW004	H1	Pin	AMW004
VDD_3V3	1	2	GND
GPIO_1	3	4	GPIO_0
OSC_32K_OUT	5	6	GPIO_2
GPIO_4	7	8	GPIO_3
GPIO_6	9	10	GPIO_5
GPIO_8	11	12	GPIO_7
GPIO_10	13	14	GPIO_9
GPIO_12	15	16	GPIO_11
RESET_N	17	18	-
GND	19	20	VDD_3V3
·			·

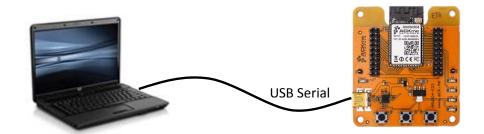
AMW004	H2 Pin		AMW004
VDD_3V3	20	19	GND
GPIO_27	18	17	GPIO_28
GPIO_25	16	15	GPIO_26
GPIO_23	14	13	GPIO_24
GPIO_21	12	11	GPIO_22
GPIO_19	10	9	GPIO_20
GPIO_17	8	7	GPIO_18
USART1_CTS	6	5	USART1_RTS
USART1_TX	4	3	USART1_RX
GND	2	1	VDD_3V3



3 Using WiConnect

To get started with WiConnect, plug the AMW004 evaluation board into the USB port of the computer and open a terminal emulator as described in Appendix A. The USB cable provides the evaluation board with power and a serial UART connection to the computer.

With the board connected to the computer, verify the power LED is illuminated. If the power LED is NOT illuminated, try re-plugging the USB cable, or try a different USB cable.



Computer with Terminal Emulator

WiConnect Evaluation Board



Note! Be sure to use a quality USB cable. Inferior cables may result in reduced or intermittent operation of the evaluation board.

3.1 Getting Help

WiConnect provides extensive help for each command and variable. To obtain a list of help options, type the help command.

To obtain help for a particular command or variable, type help <command> or help <variable>. To obtain help for the wlan scan variable, type help wlan scan.

```
> help wlan_scan
Usage : wlan_scan [-v] [<channel> [ssid]]
Shortcut: scan
Brief : Initiate a Wi-Fi scan and return results; optionally specify
a channel and AP SSID to scan for. For verbose scans, -v must be the first argument
```



3.2 Scanning for Wi-Fi Networks

To scan for Wi-Fi networks in range, use the wlan_scan command. Each AP in range is listed on a separate line.

3.3 Joining a Wi-Fi Network

Several methods are available to configure and join the AMW004 module to a Wi-Fi network.

3.3.1 **Web Setup**

WiConnect provides the option to use a web browser running on a network client (such as a smartphone, tablet or computer) to select the remote Wi-Fi network the AMW004 module should join, and to enter a password for the remote network.

When web setup is used, it is helpful to think of the network client as the keyboard and display for the module as shown in Figure 4.

To start web setup mode, enter the command setup web. WiConnect starts the local network and web server as indicated by the final message: In progress.

```
> setup web
[Disassociated]
IPv4 address: 10.10.10.1
Web setup started with the SSID: "WiConnect Web Setup"
In progress
```

Open the Wi-Fi settings on your smartphone, tablet or computer and join the network called <code>Wiconnect Web Setup</code>. The password for the network is simply: <code>password</code>. The local network name and password, and the web address may be customised to suit your needs, see the online WiConnect Reference Manual for further information.

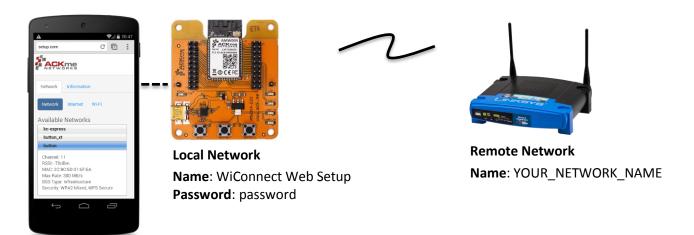
After joining the local network, open a web browser on the network client and go to <u>setup.com</u>. The WiConnect web page appears (see Figure 4), and a scan begins for Wi-Fi access points in range. Select the remote network you wish to join, enter the network password then select **Save & Exit** and follow the prompts.

Once the settings are successfully saved, WiConnect prints Web Setup Mode exited to the terminal. Check that the settings were successfully saved using get wlan.ssid and get wlan.passkey.

```
Web Setup Mode exited
> get wlan.ssid
YOUR_NETWORK_NAME
> get wlan.passkey
YOUR_NETWORK_PASSWORD
```



Figure 4. Web setup using a network client



3.3.2 Script Setup

If you prefer instead to enter configuration details for the Wi-Fi network, WiConnect provides a default setup script to step you through the process. The setup script is provided as a file called default_setup.script on the WiConnect file system. The setup script may be customised as required.

```
> setup cmd
> Enter Wi-Fi network name:
set wlan.ssid YOUR NETWORK NAME
Set OK
> Enter Wi-Fi network password:
set wlan.passkey YOUR NETWORK PASSWORD
Set OK
set wlan.auto join.enabled true
Set OK
> Saving settings
save
Saved
Success
network up
[2014-05-17 | 11:48:31: Associating to YOUR NETWORK NAME]
In progress
> Security type from probe: WPA2-Mixed
Obtaining IPv4 address via DHCP
IPv4 address: 192.168.0.31
[2014-05-17 | 11:48:41: Associated]
> Exiting Cmd Setup Mode
```

3.3.1 Manual Setup

It is straight forward to manually enter the name and password for the network using the wlan.ssid and wlan.passkey variables too. Be sure to save afterwards, or the values will be lost when the module reboots. Any subsequent command requiring network access, such as an ICMP (Internet Control Message Protocol) ping, automatically results in the module attempting to join the network.



```
> set wlan.ssid YOUR_NETWORK_NAME
Set OK
> set wlan.passkey YOUR_NETWORK_PASSWORD
Set OK
> save
Saved
Success
> ping -g
[Associating to YOUR_NETWORK_NAME]
Security type from probe: WPA2-Mixed
Obtaining IPv4 address via DHCP
IPv4 address: 192.168.0.31
[Associated]
Ping reply in 25ms
```

3.3.2 Wireless Protected Setup (WPS)

WPS is a Wi-Fi provisioning method originally intended to simplify the process of connecting Wi-Fi clients to Wi-Fi Access Points. WPS offers both a push-button and PIN entry method for configuration. In reality, WPS push-button (as opposed to PIN) is the only method that has gained some level of adoption in the industry, however WPS naturally only works when the Wi-Fi AP supports WPS.

Many AP vendors choose not to test and certify APs with the Wi-Fi Alliance, and the lack of a standard WPS logo next to the WPS button on an AP often means many users are unaware that WPS is available. The potential for equipment incompatibility and added user confusion mean it is unwise to rely on WPS as the primary method of Wi-Fi provisioning in the real world.

Incompatibility and confusion aside, WiConnect provides full support for WPS1.0 & WPS2.0 and the underlying WPS engine has passed Wi-Fi certification. To use WPS in push-button mode, simply enter the wps command into WiConnect, then press the WPS button on your router (if the router supports WPS, and it is enabled, and you can find the button), and wait for the magic to happen.

3.4 Filesystem

ACKme Wi-Fi modules running WiConnect include a serial flash memory and a filesystem that provides users with the ability to read and write files. A quick example showing how to create, manipulate then delete a file is provided below.

```
> file create hello.txt 12
File created
Success
> ls
! # Type Flags Hnd
                    Size
                            Version Filename
                         1.1.1 wiconnect.exe
                  85572
#00 i-80
        001B
              0
        0009 21 191677
                            1.1.1 wifi fw.bin
#01 i-01
                            1.1.1 upgrade_app.exe
#02 i-00 001B 163 352516
                            1.0.0 hello.txt
#03 e-FE
        0021 0 12
        0001 1 10525
#04 e-FE
                            1.1.1 /setup/index.css.gz
         0001 4 18067
#05 e-FE
                            1.1.1 /setup/images.png
#06 e-03
         0009 117
                    1162
                            1.1.1 geotrust ca.pem
#07 e-FE
         0001 118 38779
                            1.1.1 /setup/index.js.gz
#08 e-FD
         0009 128
                             1.1.1 default_setup.script
                    189
         0001 129
#09 e-FE
                    9641
                            1.1.1 /setup/index.html
         0001 179 27934
#10 e-FB
                             1.1.1 command_help.csv
#11 e-FE
         0001 186
                    1853
                             1.1.1 /favicon.ico.gz
```



```
> file_open hello.txt
[Opened: 0]
0
> stream_read 0 50
Hello world!
> stream_close 0
[Closed: 0]
Success
> file_delete hello.txt
File deleted
Success
>
```



Note! After issuing the file_create hello.txt 12 command in the example above, WiConnect waits for 5 characters to be entered (hello in the example); these characters are NOT echoed to the terminal.

3.5 UDP / TCP / TLS Clients

To open a UDP, TCP or secure TLS connection to a remote server, use the udp_client, tcp_client or tls_client commands. WiConnect responds with a stream handle if the connection is opened successfully. For TLS connections, WiConnect provides a default TLS root certificate signed by GeoTrust (located on the WiConnect file system), however this certificate may not work with some TLS servers. A custom certificate may be provided as an option to the tls client command if required.

```
> udpc test.ack.me 50019
[Opening: test.ack.me:50019]
Resolving host: test.ack.me
Connecting: 107.170.222.80:50019
[2014-05-19 | 11:12:22: Opened: 0]
> tcpc test.ack.me 50019
Resolving host: test.ack.me
[2014-05-19 | 11:12:38: Opening: test.ack.me:50019]
Connecting (TCP): 107.170.222.80:50019
[2014-05-19 | 11:12:39: Opened: 1]
1
> tlsc google.com 443
Resolving host: google.com
[2014-05-19 | 11:12:49: Opening: google.com:443]
Connecting (TLS): 74.125.237.174:443
[2014-05-19 | 11:12:50: Opened: 2]
```

Now try writing a character to the UDP or TCP stream that was opened in the examples above (remember, WiConnect does NOT echo characters typed after the stream_write command). The server at http://test.ack.me responds with a character pattern using the Character Generator) protocol.

```
> stream_write 0 1
Success
> stream_read 0 50
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQR
```



Note! WiConnect supports TCP server mode too!

For more information, please refer to the WiConnect Reference Guide.



3.6 HTTP / HTTPS Clients

To open an HTTP or secure HTTPS connection to a remote server, read the first 300 bytes of the response then close the connection, use the http_get, stream_read and stream_close commands. WiConnect responds with a stream handle if the connection is opened successfully.

```
> http get https://www.google.com
[2014-05-19 | 11:14:31: Opening: https://www.google.com]
Request GET /
Connecting (HTTP): www.google.com:443
Starting TLS
[2014-05-19 | 11:14:31: Opened: 0]
HTTP response: 302
Redirected to https://www.google.com.au/?gfe rd=cr&ei=l-d5U9m2J6GN8QfexoHYCg
Request GET /?gfe rd=cr&ei=1-d5U9m2J6GN8QfexoHYCg
Connecting (HTTP): www.google.com.au:443
Starting TLS
HTTP response: 200
Status: 200
> stream read 0 300
<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-</pre>
AU"><head><meta content="/images/google favicon 128.png"
itemprop="image"><title>Google</title><script>(function() {
window.google={kEI:"mOd5U4eZAYTVkAXF2oDwBA",getEI:function(a) {for(var
b;a&&(!a.getAttribute||!(b=a.getAt
> stream close 0
[2014-05-19 | 11:14:47: Closed: 0]
Success
```

3.7 Using GPIOs

In WiConnect, a GPIO may have two functions: a standard IO function or an alternate function (such as a system indicator, status GPIO or control GPIO). When a GPIO is configured with an alternate function, the standard IO function is NOT available and the <code>gpio dir</code>, <code>gpio set</code>, and <code>gpio get</code> commands are disabled for that GPIO.

Before a GPIO can be used, it is necessary to first check whether the GPIO is being used for an alternate function, or is already in use as a standard GPIO (for another purpose). If the GPIO is in use, it must first be freed up by setting the direction of the GPIO to none using the gpio dir command (standard IO) or by disabling the alternate function.

The example below demonstrates how to control GPIO 26 on the AMW004 module. GPIO 26 is unassigned GPIO after factory reset.



On AMW004-E02 (Marlin): Header Pin 6 = AMW004 GPIO 26 On AMW004-E03 (Mackerel): Header 2 Pin 15 = AMW004 GPIO 26

```
> gpio dir 26 out
Set OK
> get gpio.usage
! # Description
#13 - UART1 RX
#14 - UART1 TX
#17 - SPI CLK
#18 - SPI MOSI
#19 - SPI MISO
#21 - system.indicator.network
#22 - system.indicator.wlan
#26 - Standard I/O
> gpio set 26 0
Set OK
> gpio_set 26 1
Set OK
> gpio set 26 0
Set OK
```

3.8 Factory Reset

The AMW004 module may be factory reset by using the factory_reset command or by holding the factory reset pin (GPIO 0 on all ACKme modules) high for more than 10 seconds through a hardware reset. After a successful factory reset, all variables are set to factory defaults and the module reboots. To avoid accidental factory reset, the Wi-Fi MAC address must be provided when calling the factory reset command.

```
> get wlan.mac
4C:55:DC:15:02:5D
> factory_reset 4C:55:DC:15:02:5D
Reverting to factory default settings
Setting boot app to wiconnect.exe (0)
wiconnect-1.1.0.5, Built:2014-05-07 00:07:31 for AMW004.3, Board:AMW004-E03.1
[Ready]
```

3.9 Save & Reboot

When the value of a WiConnect variable is changed, the new value is only saved to RAM (not flash!). The value of unsaved variables is lost when the module is reset or rebooted. To save variables to non-volatile flash memory, use the save command. The following example demonstrates that failing to save the wlan.ssid prior to reboot results in the newly assigned value being lost.

```
> set wlan.ssid ssid_WONT_be_saved
Set OK
> reboot
[Disassociated]
Rebooting
wiconnect-1.1.0.5, Built:2014-05-07 00:07:31 for AMW004.3, Board:AMW004-E03.1
[Ready]
> get wlan.ssid
> set wlan.ssid ssid_WILL_be_saved
Set OK
> save
Saved
```





Note! WiConnect configures some services (such as GPIO initialization) only after reboot. It may be necessary to save and reboot the module before the new value of some variables takes effect.

3.10 Command vs. Stream Mode

The WiConnect serial interface may be used in either Command Mode or Stream Mode. A brief description of each of these modes is provided in the following text. For detailed information, please refer to the <u>WiConnect Reference</u> Guide.

3.10.1 Command Mode

Command mode provides an asynchronous command interface that a host may use to send and receive control and data information. Command mode is typically used by a host to configure WiConnect, however it may also be used by simple hosts that need ultimate master/slave control over information sent to, and received from, the module. All preceding examples demonstrate usage of WiConnect in command mode.

There are two ways to interact with WiConnect in Command mode. When operating in human friendly command mode, WiConnect provides verbose asynchronous responses that are easy for humans to read. In machine friendly command mode, verbose prints and the command prompt are disabled and a well-defined response header is returned after each command.

Human Friendly Command Mode

The WiConnect serial interface is configured to be human friendly with the following (default) settings.

Command	Description
set system.print_level all	Turn on all debug & informational prints
set system.cmd.header_enabled 0	Disable a response header
set system.cmd.prompt_enabled 1	Turn on the user prompt
set system.cmd.echo on	Turn on character echo to see what you're typing

Machine Friendly Command Mode

To configure the serial interface for machine friendly operation, use the following settings.

Command	Description
set system.print_level 0	Turn off all debug & informational prints
set system.cmd.header_enabled 1	Enable a response header
set system.cmd.prompt_enabled 0	Turn off the user prompt
set system.cmd.echo off	Turn off character echo



3.10.2 Stream Mode

Stream Mode provides a streaming interface that transparently connects a WiConnect serial interface with a network stream such as a UDP, TCP or TLS client or server. Stream mode provides a simple 1-1 connection between a physical serial interface and a network stream.

Bytes or characters sent from the host to a serial interface are transparently pushed by WiConnect to a network stream via a wireless interface. Conversely, bytes or characters received by a network stream (from a remote server) via a wireless interface are transparently pushed by WiConnect to a serial interface connected to the host. A wireless serial port is a typical application that uses stream mode.

3.11 Want more?

The WiConnect Reference Guide, available online at http://wiconnect.ack.me, provides detailed information about all WiConnect features, commands and variables, versions and release notes.

A number of simple and more sophisticated example applications are also provided to help you get the most out of WiConnect and the AMW004 module.



4 Ordering Information

Table 4 provides ordering information for AMW004 evaluation boards.

Table 4. Ordering Information

Part Number	Picture	Description
AMW004-A01 'Hornet'		Hornet module adapter. Includes AMW004 module.
AAE001		Bare bones evaluation board that takes an AMW004-A01 Hornet module adapter. Does NOT include a AMW004-A01 'Hornet' module adapter!
AMW004-E02 'Marlin'		WiConnect development and evaluation platform for the AMW004-A01 Hornet through-hole pluggable module adapter. This part number includes both the AAE001 evaluation board and the AMW004-A01 module.
AMW004-E03 'Mackerel'		WiConnect development and evaluation platform for the surface-mount AMW004 module. This board is similar to the AAE001 Marlin board but is instead fitted with a surface mount AMW004 module that is not removable.



5 Revision History & Glossary

5.1 Revision History

Table 5: Document Revision History

Revision	Date	Change Description
ARG-MW004E-100R	May 20, 2014	First release

5.2 Glossary

In most cases, acronyms and abbreviations are defined on first use. A comprehensive list of acronyms and other terms used in ACKme Networks documents are provided on the ACKme Networks website at http://ack.me/FAQs/Glossary.



APPENDIX A – Configuring a Terminal Application

The following instructions describe how to obtain and install a serial terminal application for use on computers running a Windows® or OS X operations system. ACKme recommends using PuTTY for Windows® systems and CoolTerm for OS X systems, however other equivalent applications may work equally well.

Plug the evaluation board into the computer using a USB cable before continuing.

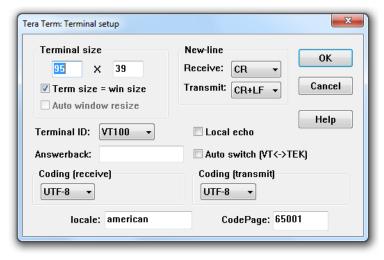
Set Up Tera Term for Windows®

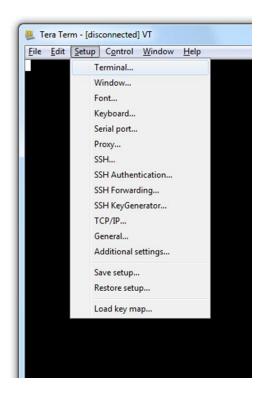
Tera Term is available as a free download from http://ttssh2.sourceforge.jp. Download and install Tera Term now if you have not already done so. The following procedure describes how to establish a UART serial connection between Tera Term and the evaluation board.

- Start the Tera Term application and click on the **Setup** tab. A
 dropdown appears providing options to configure Tera Term as
 shown in the screen capture on the right. Select **Terminal**.
- 2. Terminal Setup. In the **New-line** section of the **Setup Terminal** dialog box (see the screen capture below), ensure that:

Receive: is set to CR
 Transmit: is set to CR+LF

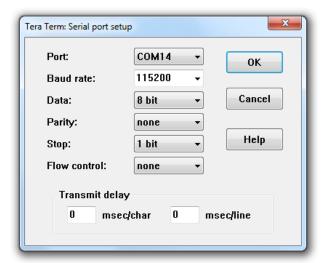
Close the **Terminal Setup** dialog box by selecting **OK**.





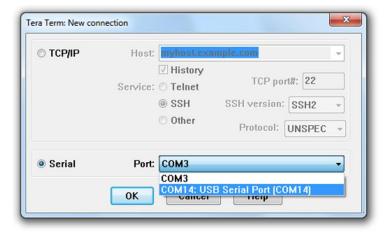
3. Serial Port Setup. Select the **Setup** tab again from the main window, then select **Serial port**. A **Setup serial port** dialog box appears. Ensure the settings in the dialog box match the settings shown in the following screen capture. The COM **Port** shown in the example (COM14) will almost certainly be different for your evaluation board, be sure to choose the COM port that matches your board.



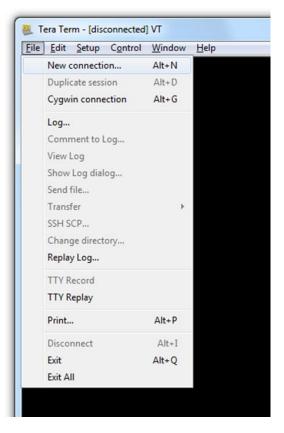


When the serial port has been correctly setup, close the **Serial port** setup dialog box by selecting **OK**.

4. New Connection. From the Tera Term application menu, setup a new connection with the evaluation board by selecting **File** | **New connection** (or by pressing Alt+N) as shown in the screen capture on the right. A New connection dialog box appears as shown in the following screen capture.



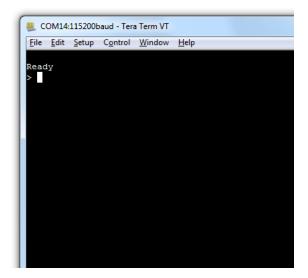
Check the **Serial** radio button, then click the **Port**: dropdown menu and select the COM port that matches your evaluation board. The COM port description for the evaluation board includes the text **COMxx**: **USB Serial Port (COMxx)**.



Once the correct COM port has been selected, close the **New connection** dialog box by selecting **OK**.

5. Testing the connection. If Tera Term was able to connect successfully, the text in the application title bar indicates which COM port is connected, and the baud rate of the connection. For the example documented above, Tera Term displays 'COM14:115200baud'. The Tera Term screen remains blank however until a character is sent to WiConnect. Try pressing the **Enter** key, WiConnect responds with Ready as shown in the following screen capture.





Set Up CoolTerm for OS X

CoolTerm is available as a free download from http://freeware.the-meiers.org/CoolTermMac.zip. Download and install CoolTerm now if you have not already done so.

The following procedure describes how to establish a UART serial interface between CoolTerm and the evaluation board.

 Start the CoolTerm application and click the Options menu icon. The CoolTerm Configuration window opens. Set the Serial Port configuration options as follows:

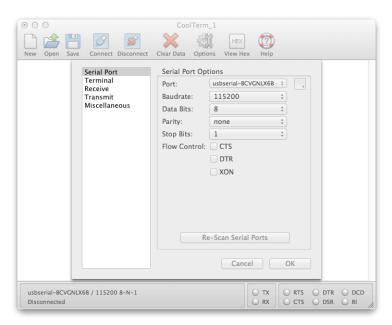
Port: usbserial-XXXXXXXX

Baudrate: 115200

Data bits: 8Parity: noneStop bits: 1

• Flow control : Deselect all options

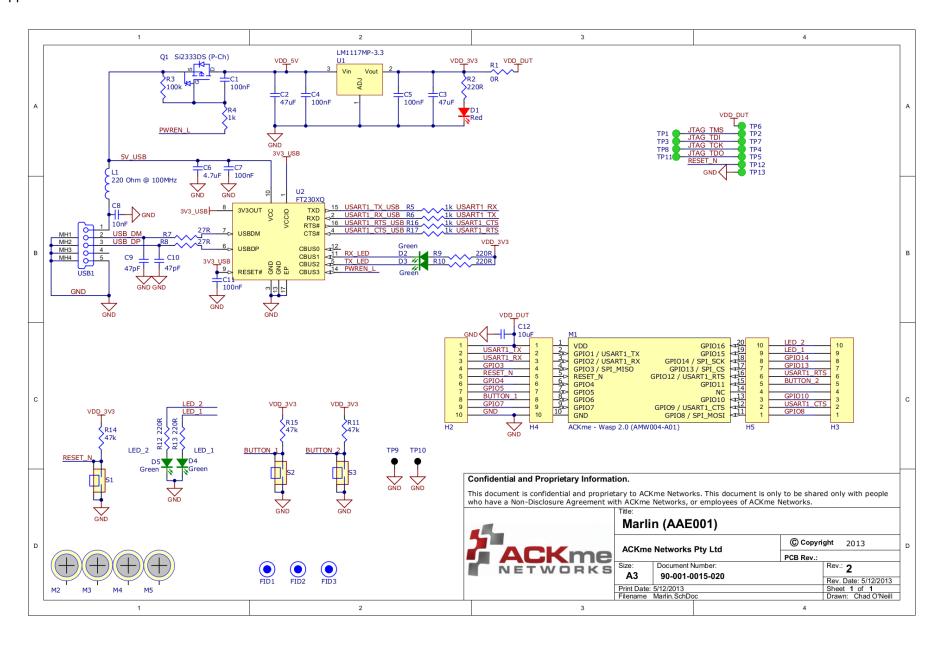
- 2. Click OK.
- 3. Click the **Connect** menu icon. The CoolTerm application connects to the evaluation board.

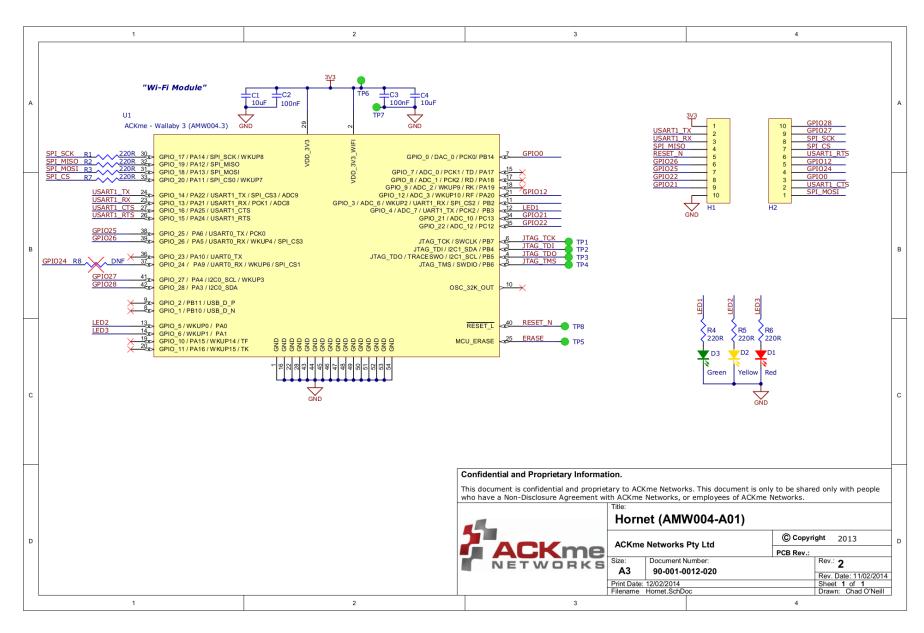


Try pressing the Enter key, if CoolTerm is successfully connected to the evaluation board, WiConnect responds with

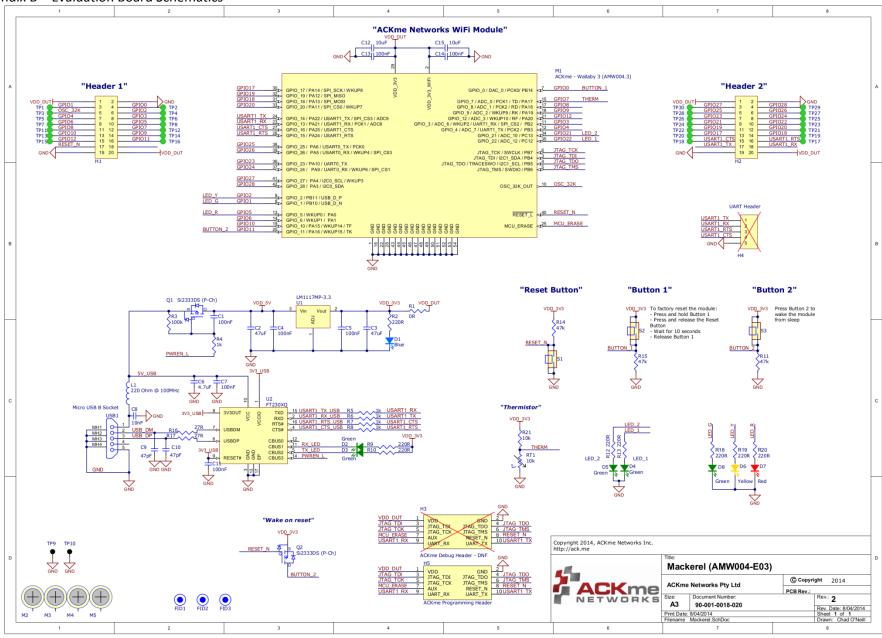
Ready >

Appendix B - Evaluation Board Schematics





Appendix B - Evaluation Board Schematics



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