

Device: WRL-3002

This document Version: 1.0

Date: 26 October 2013

Description: 5V converter for WRL-3000 WiFi module

Matches module hardware version: [8 Sep 2013 v1]



# WRL-3002 HW vI datasheet – Page 2

### **Table of Contents**

Introduction	3
Features	3
Construction	3
Connections	3
Power	
Schematic	4
PCB	4
Versions	5

#### Introduction

The WRL-3002 module makes your WRL-3000 WiFi module available to 5V systems.

#### **Features**

With a 1A voltage regulator, the WRL-3002 has a 6 way fast level converter to make your 5V device such as an Arduino or other 5V system work perfectly well with the 3.3V CC3000.

#### Construction

Just populate it with headers to match your WRL-3000 and away you go.

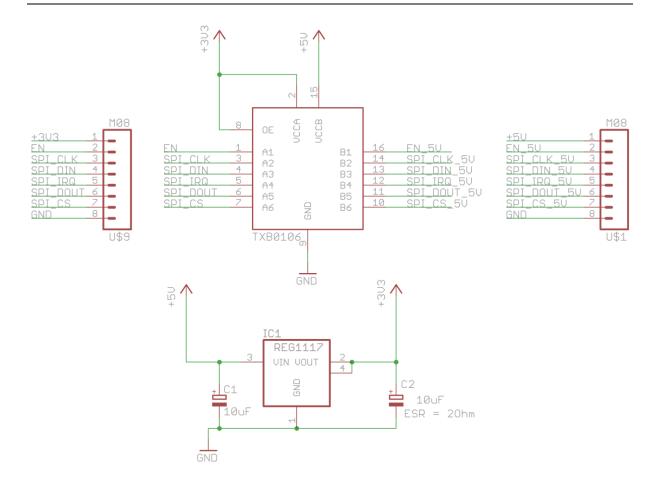
#### **Connections**

The WRL-3002 has two ports. The port at the bottom of the board interfaces to your 5V system. The port at the top of the board interfaces with your WRL-3000. For more information on the pins used, see the WRL-3000 datasheet.

#### **Power**

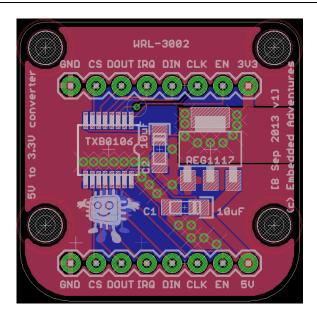
The WRL-3000 itself needs a chunky 300mA supply. So you need to make sure your 5V system can supply this. Otherwise, the WRL-3000 will fail to initialise and will generally misbehave.

### **Schematic**



The WRL-3000 uses TXB0106 to convert between 3.3V and 5V, both ways.

### **PCB**



## **Versions**

Version	Date	Comments
Version 1.0	26 Oct 2013	Initial Version for board [8 Sep 2013 v1]