

embedded adventures

Device: MOD-1017

This document Version: 1.0

Matches module hardware version: v2

Date: 13 December 2012

Description: StepUp Module



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Introduction

The MOD-1017 is an NCP1450 based StepUp voltage converter.

Features

The MOD-1017 can supply up to 1 Amp of current, making it seriously useful. It comes in two flavours, 3.3V and 5V, which will give you either 3.3V or 5V.

Hackability

We'd like to think that the MOD-1017 is 100% hackable.

At Embedded Adventures, we believe you have the most fun when you have the most control over your hardware. For the MOD-1017 we provide a datasheet, and complete schematic. After that, it's all up to you. We'd love to hear about the projects you're using it for – send us information and photos to myproject@embeddedadventures.com

Construction

It's all pre-built! Just add female or male header pins, or solder directly to the board, and away you go.

Connections

The MOD-1017 has two connection ports.

Input port

| | |
|-----|---------------------------|
| IN+ | Positive supply (eg 1.5V) |
| GND | Ground (Vss) connection. |

Output port

| | |
|------|-----------------------------------------|
| OUT+ | Up converted output (either 3.3V or 5V) |
| GND | Ground (Vss) connection. |

Technical details

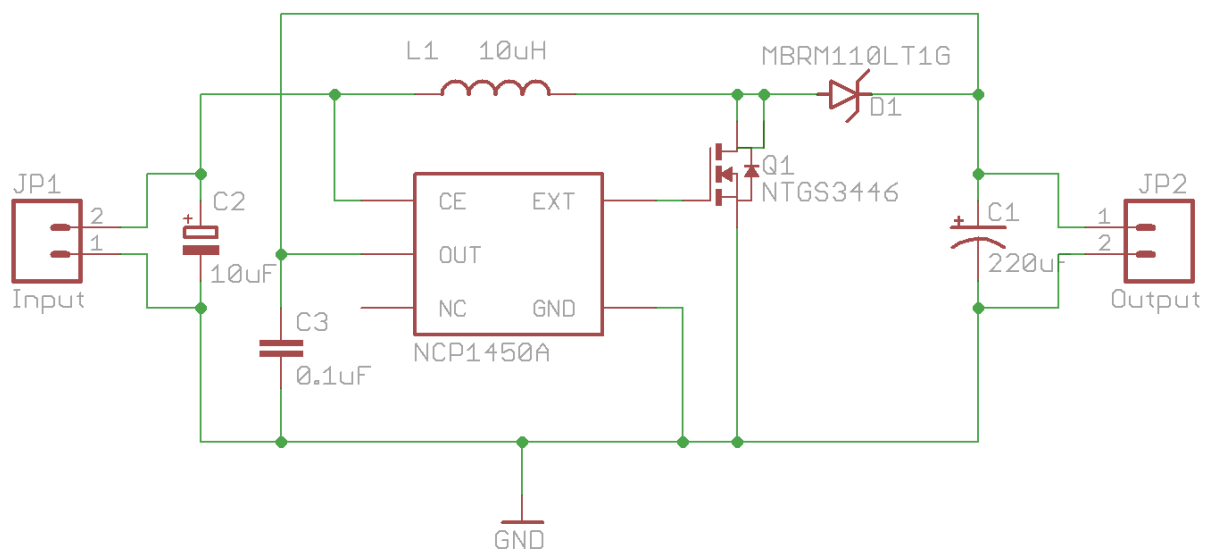
The MOD-1017 can be powered from 0.9V upwards.

For more technical information about the MOD-1017, and more graphs than you can poke a stick at, please see the NCP1450 datasheet.

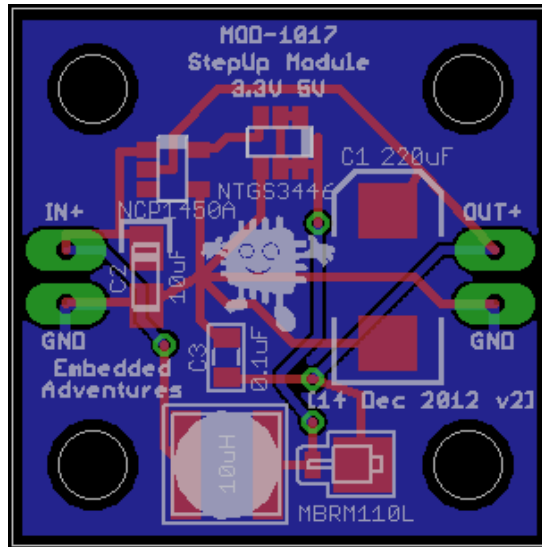
Tips and tricks

There is not much to these cute little modules. Whack small voltage in, get bigger voltage out. Enjoy.

Schematic



PCB



Versions

| Doc Version | HW Version | Date | Comments |
|-------------|------------|-------------|--------------------------------------------------------------------------------|
| 1.0 | 2 | 14 Dec 2012 | Initial Version for board v2 Board v1 identical except for silkscreen fixes |