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Contents

1. Introduction	5
1.1. Scope.....	5
1.2. Audience.....	5
1.3. Contact Information, Support	5
1.4. Document Organization	6
1.5. Text Conventions.....	6
1.6. Related Documents	6
1.7. Document History	6
2. Battery charger design	7
2.1. Example of battery chargers	7
2.1.1. Battery Charger with 5V input.....	7
2.1.2. Battery Charger with up to 76V input.....	8



1.4. Document Organization

This document contains the following chapters (sample):

[“Chapter 1: “Introduction”](#) provides a scope for this document, target audience, contact and support information, and text conventions.

[“Chapter 2: “Chapter two”](#) gives guideline about how to design a battery charger.

1.5. Text Conventions



Danger – This information MUST be followed or catastrophic equipment failure or bodily injury may occur.



Caution or Warning – Alerts the user to important points about integrating the module, if these points are not followed, the module and end user equipment may fail or malfunction.



Tip or Information – Provides advice and suggestions that may be useful when integrating the module.

All dates are in ISO 8601 format, i.e. YYYY-MM-DD.

1.6. Related Documents

- Hardware User Guide of the relevant Telit module
- AT Command User Guide, 80000ST10025a
- Telit modules SW User Guide, 1w0300784

1.7. Document History

Revision	Date	Changes
0	2010-08-27	First issue
1	2010-10-04	Added GL865-DUAL to the applicability table



2. Battery charger design

The products listed in the applicability table are not equipped with a battery charger. Aim of this application note therefore, is to help the customers to design a battery charger that goes along with a Telit module, suitable for applications that are battery powered with a Li-Ion (or Li-Polymer) cell.

2.1. Example of battery chargers

2.1.1. Battery Charger with 5V input

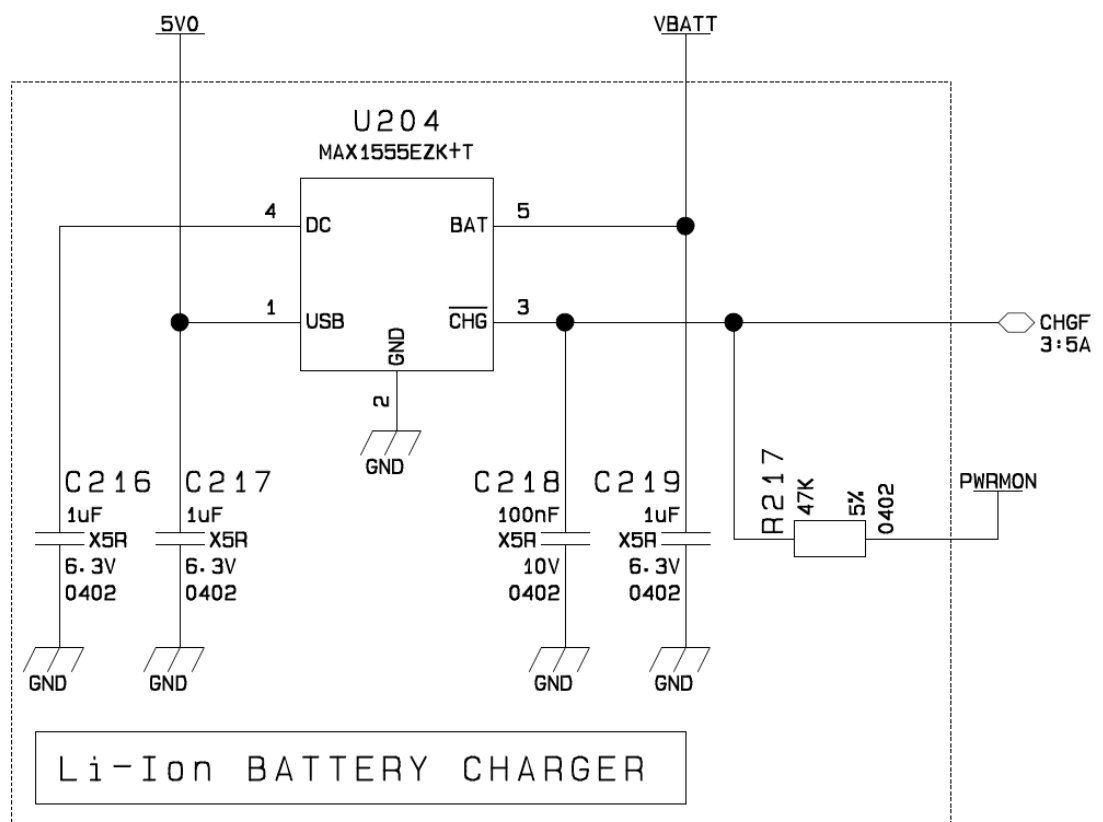


Fig 1: Battery Charger with 5V input power supply.

The MAX1555 charges the Li-Ion Cell by CCCV technique (Constant Current Constant Voltage).

If VBATT is less than 3 V, the device enters in pre-charge mode, where recharging current is limited to 40 mA. That low recharge current is suitable to “recover” an over-discharged cell.



Battery Charger Design Application Note
80000nt10042a Rev.1 - 2010-10-04

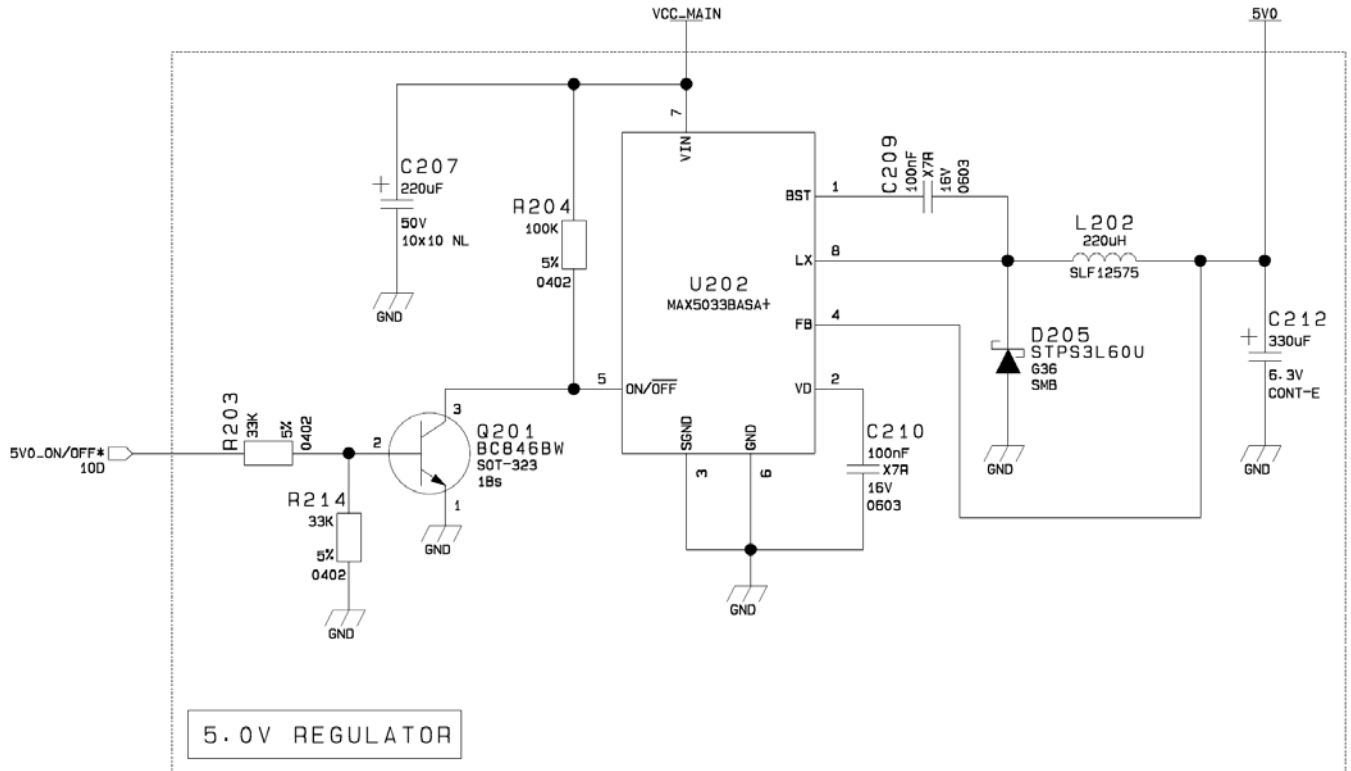


Fig.2: Wider input power supply voltage (up to 76 V DC input voltage).

