



STEVAL-ISB007V1

Low cost Li-Ion battery charger demonstration board based on the ST7260 and L6924U

Data Brief

Features

- Can be used in USB mode or adapter mode
- LEDs indicate status of charging conditions
- ICC connector available to program the microcontroller
- Li-Ion / Li-Polymer battery charger

Description

The STEVAL-ISB007V1 demonstration board is based on the L6924, a standalone Li-Ion/ Li-Polymer battery charger. Power to the board can be supplied either by USB or an external DC adaptor.

In USB mode, the charging current of the battery complies with high-power USB device specifications. The L6924 is powered by 5 V from the USB, thus also charging the battery.

An ST7260 microcontroller is used for enumeration with the PC, to control the SD pin and to ensure compliance with USB high-power bus-powered specifications.

The board also features a general-purpose adaptor socket for use when the board is powered by an external DC supply. In this case the L6924 is completely independent of the microcontroller.



STEVAL-ISB007V1

1 Circuit schematics

Figure 1. Microcontroller section

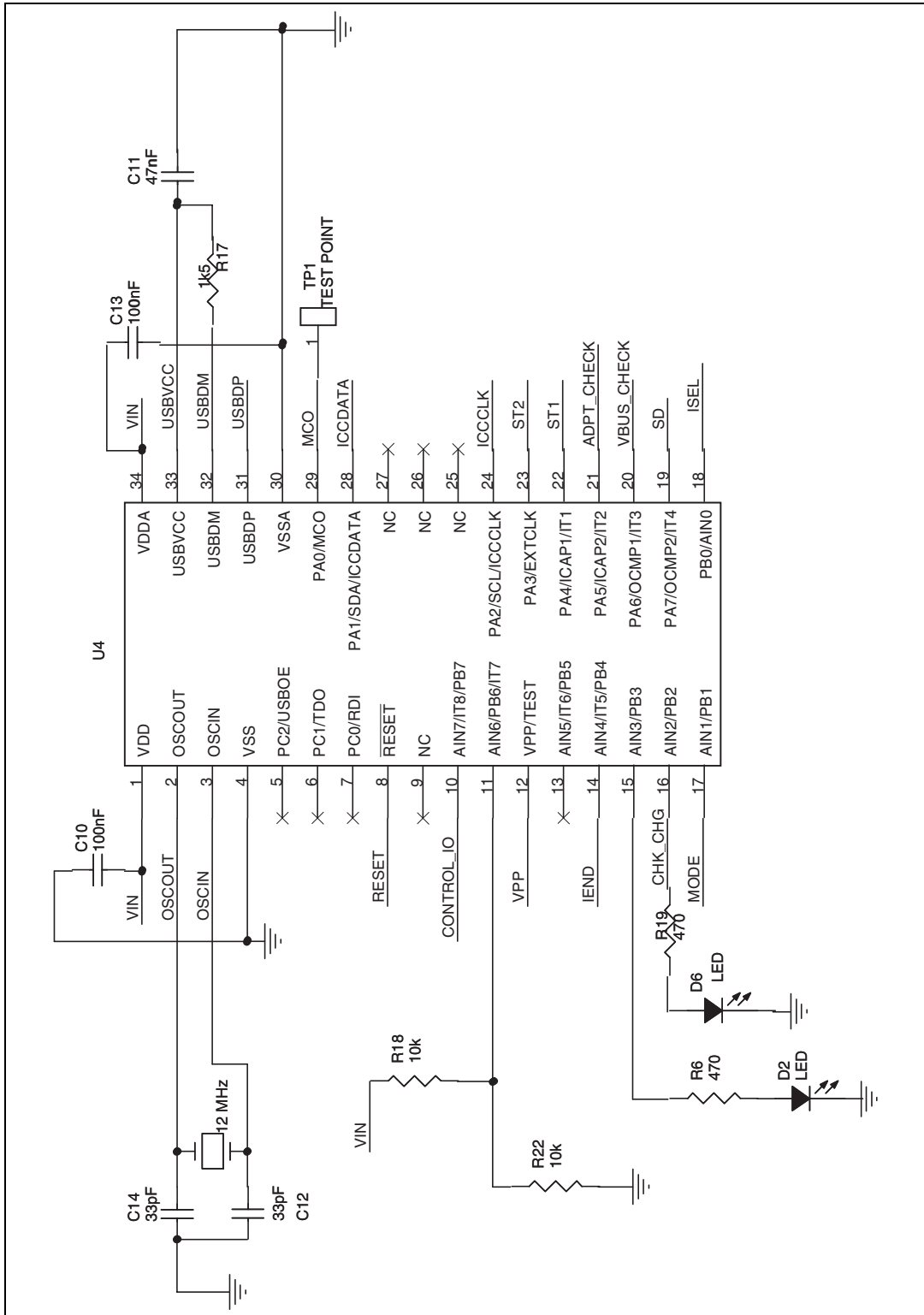
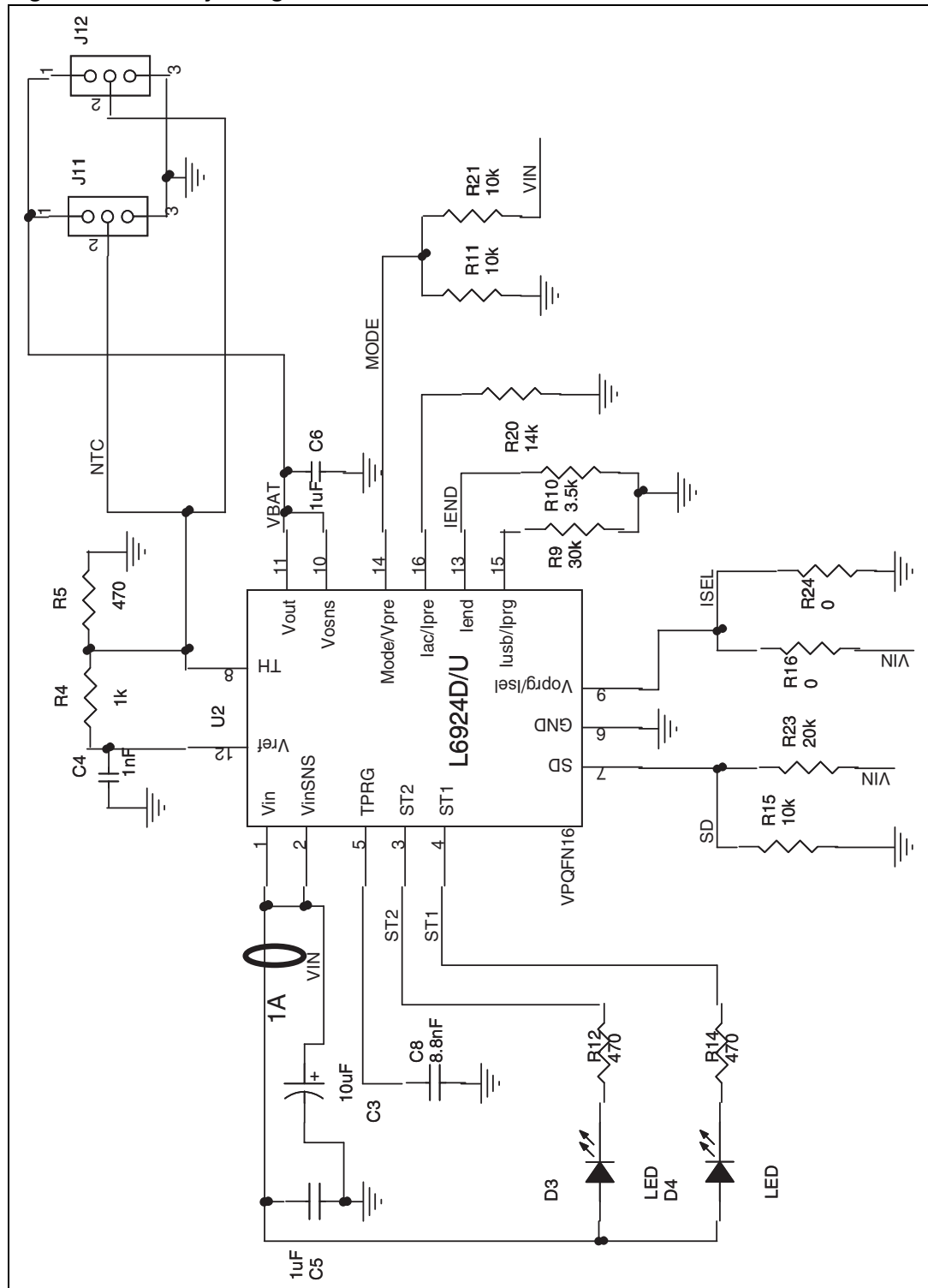


Figure 2. Battery charger⁽¹⁾



1. Pin no.description of L6924 is taken for both L6924D and L6924U.Pls refer to respective datasheets

Figure 3. Power supply

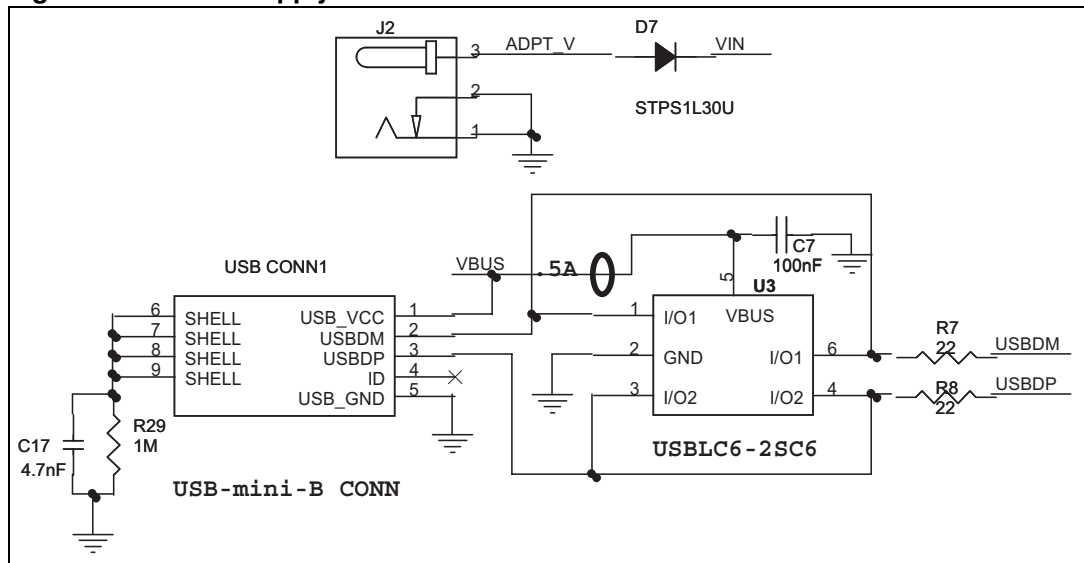


Figure 4. USB-B connector

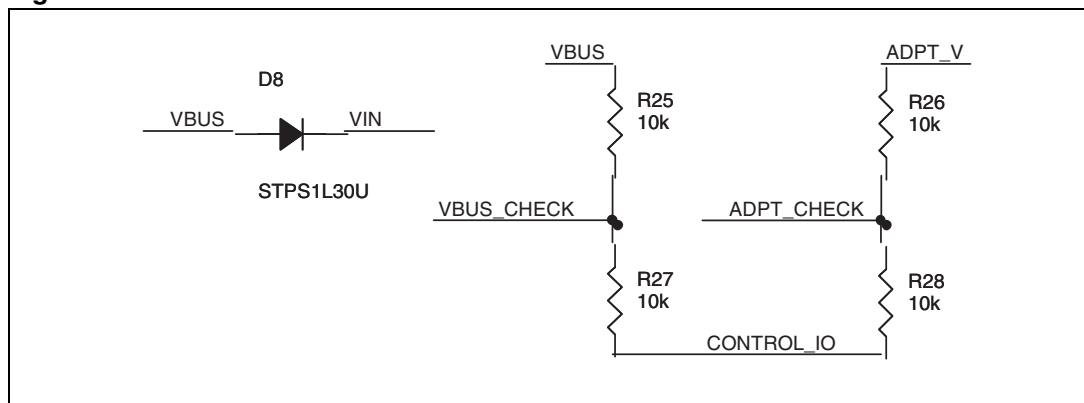
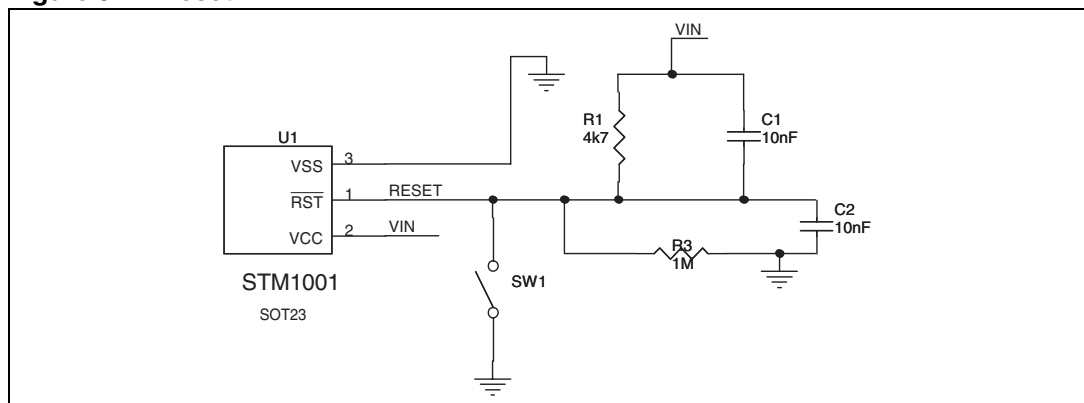


Figure 5. Reset



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
26-Feb-2009	1	Initial release.

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