

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

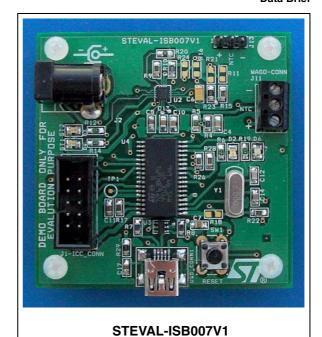
Description

The STEVAL-ISB007V1 demonstration board is based on the L6924, a standalone Li-lon/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.

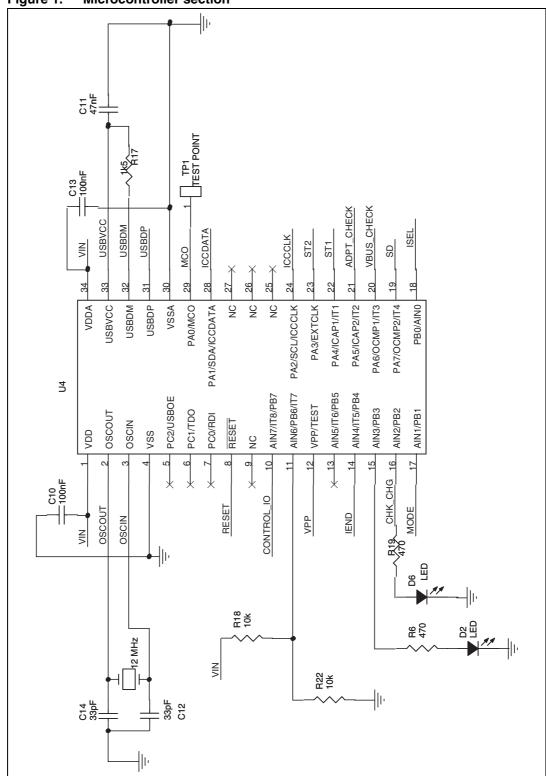


February 2009 Rev 1 1/6

Circuit schematics STEVAL-ISB007V1

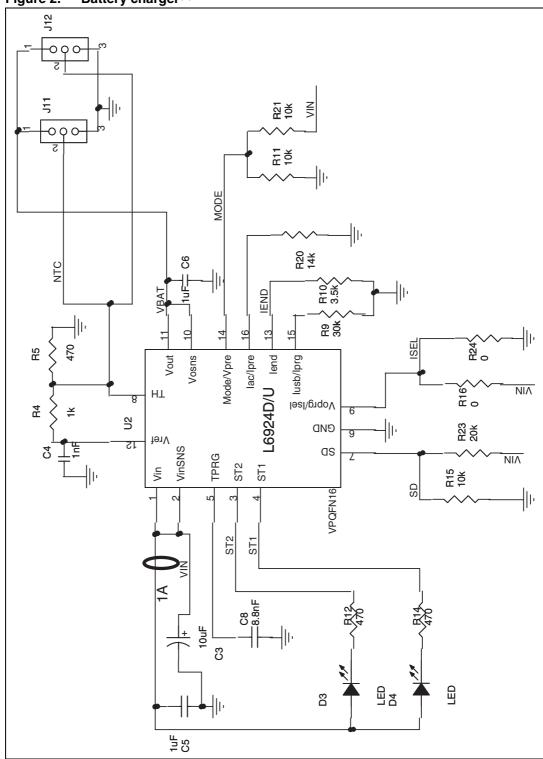
1 Circuit schematics





STEVAL-ISB007V1 Circuit schematics





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

3/6

Circuit schematics STEVAL-ISB007V1



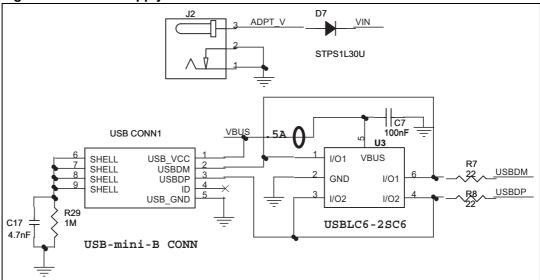


Figure 4. USB-B connector

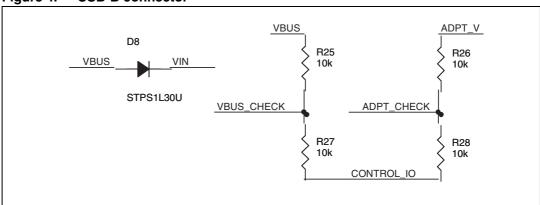
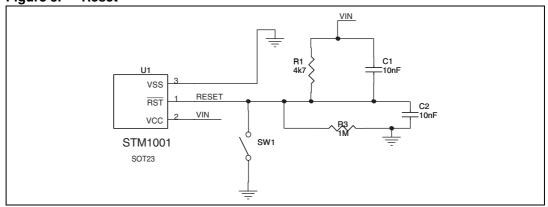


Figure 5. Reset



4/6

STEVAL-ISB007V1 Revision history

2 Revision history

Table 1. Document revision history

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

5/6

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577