

Camera flash with SuperCap™ daughterboard based on the STCF04

Data brief

Features

- 1.8 MHz buck-boost converter with 1.2 A peak
- Current limiting and synchronous rectification
- Programmable current limit
- Burst mode operation when output is charged
- Selectable 200 mA / 400 mA SuperCap™ charging current
- Input voltage range 2.7 V to 5.5 V
- Programmable output charging voltage up to 5.5 V
- Full I²C control
- Controlled LED current in all modes
- Shorted LED failure detection and protection
- RoHS compliant



Description

The STEVAL-TLL008V2 demonstration board is a daughterboard working in conjunction with the STEVAL-TLL008V1 and was designed to demonstrate the performance of the STCF04 device, which is a buck-boost converter with an I²C interface dedicated to charging a SuperCap™.

All LEDs with a forward voltage range from 2.5 V to 5 V are compatible with the STCF04. The forward voltage spread of any selected LED must, however, be within this range (2.5 V to 5 V).

It is possible to set the level of the LED current in Flash mode and torch mode by setting the dimming registers.

The maximum level of the LED current in Flash mode can be set by changing the external flash resistor.

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
04-Jun-2012	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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