



# STEVAL-ISA109V1

800 mA, 3 MHz, high efficiency dual mode buck-boost DC-DC converter based on the STBB2

Data brief

## Features

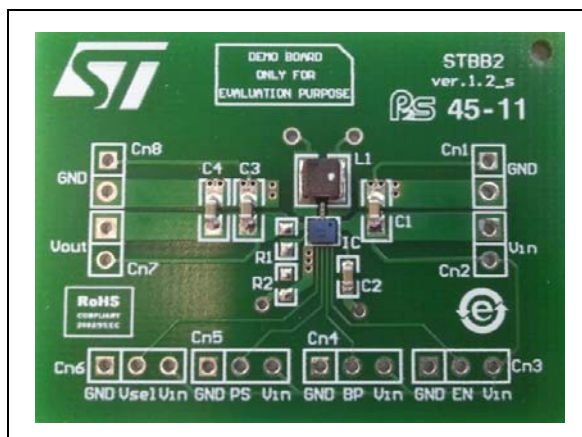
- Input voltage: from 2.3 V to 5.5 V
- Output voltage: 3.3 V
- Output current: 800 mA
- Operating frequency: 3 MHz
- RoHS compliant

## Description

The STEVAL-ISA109V1 is designed to aid in the evaluation of the STBB2, a high efficiency buck-boost DC-DC converter capable of providing regulated output voltages in the range of 1.2 V to 5.5 V with an input voltage between 2.3 V and 5.5 V.

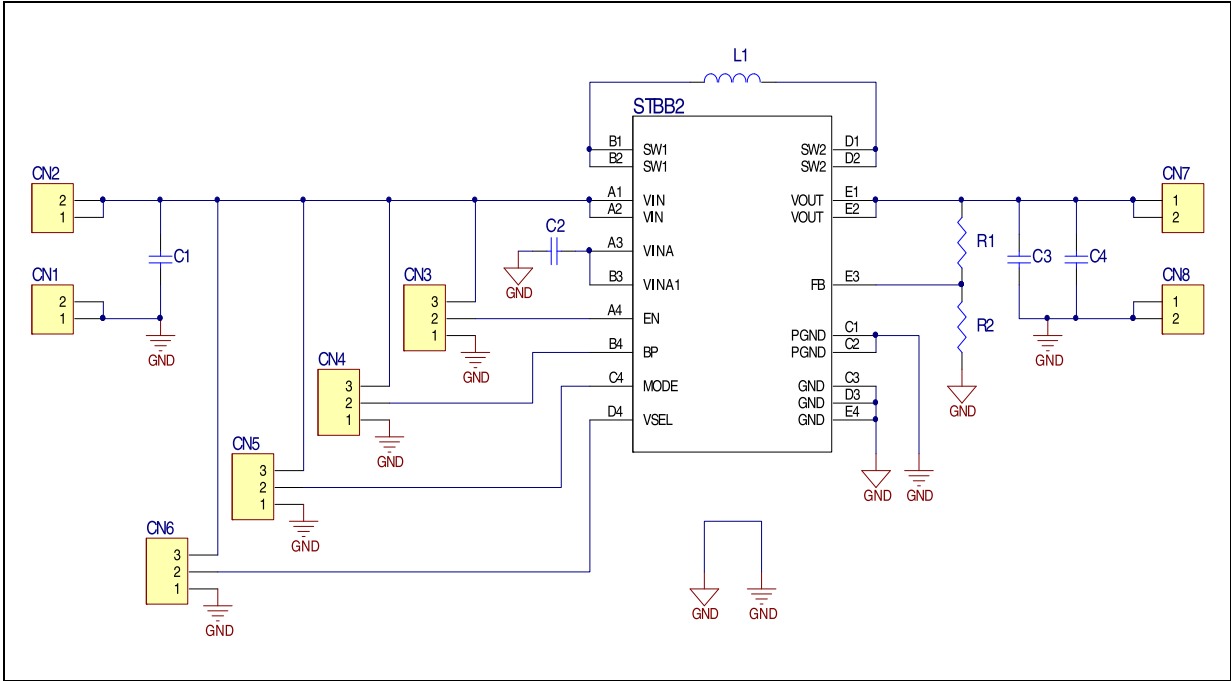
The board comes pre-mounted with the adjustable version of the STBB2, with the output voltage set to 3.3 V. For this version, the  $V_{SEL}$  pin must be connected to  $V_{IN}$ .

The board can also demonstrate the performance of the fixed version of the STBB2, by replacing  $R_1$  with a 0  $\Omega$  resistor and disconnecting  $R_2$ .



# 1 Schematic diagram

Figure 1. STEVAL-ISA109V1 circuit schematic



## 2 Revision history

**Table 1. Document revision history**

| Date        | Revision | Changes          |
|-------------|----------|------------------|
| 15-Oct-2012 | 1        | Initial release. |

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