

STEVAL-ISA131V3

The STEVAL-ISA131V3 is a product evaluation

The converter operates at a switching frequency

of 6 MHz and is specifically designed for applications where high efficiency and small

application areas are key factors.

board designed around the ST1S15, a highefficiency miniaturized step-down converter able to provide 500 mA output current from an input

1.82 V – 500 mA, 6 MHz synchronous step-down converter based on the ST1S15

Description

voltage of 2.3 V to 5.5 V.

Data brief



Features

- 85% typical efficiency
- 500 mA output current capability
- 45 μA typical quiescent current
- PFM or PWM operation for best efficiency over the entire load range
- Ultra-fast load and line transients
- Short-circuit and thermal protection
- Tiny external components
- Auto or forced PWM selection using a dedicated pin
- ST1S15TPUR in DFN6 (2 x 2 mm)
- RoHS compliant

January 2014

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For further information contact your local STMicroelectronics sales office

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Application schematic

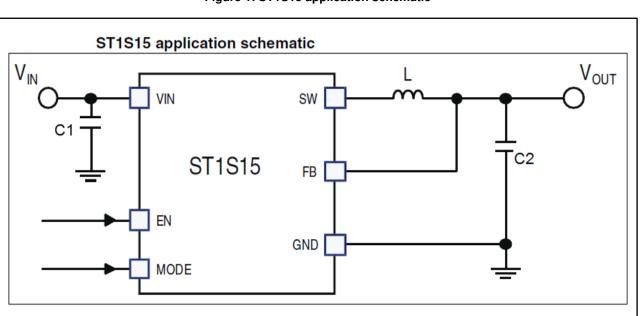


Figure 1: ST1S15 application schematic



2 Revision history

Table 1: Revision history

Date	Revision	Changes
22-Jan-2013	1	Initial release



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