



# STEVAL-ISA079V1

High efficiency monolithic synchronous step-down regulator based on the L6928D

Data brief – preliminary data

## Features

- 2 V to 5.5 V battery input range
- High efficiency: up to 95%
- Extremely low quiescent current
- 1  $\mu$ A max. shutdown supply current
- 800 mA max. output current
- Adjustable output voltage from 0.6 V
- Low dropout operation: up to 100% duty cycle
- $\pm 1\%$  output voltage accuracy
- 1.4 MHz switching frequency externally synchronizable from 1 MHz to 2 MHz
- Short-circuit protection
- RoHS compliant



## Description

The STEVAL-ISA079V1 demonstration board is based on the DC-DC monolithic regulator L6928D, specifically designed to provide extremely high efficiency.

The L6928D supply voltage can be as low as 2 V, allowing it to be used in single Li-Ion cell supplied applications.

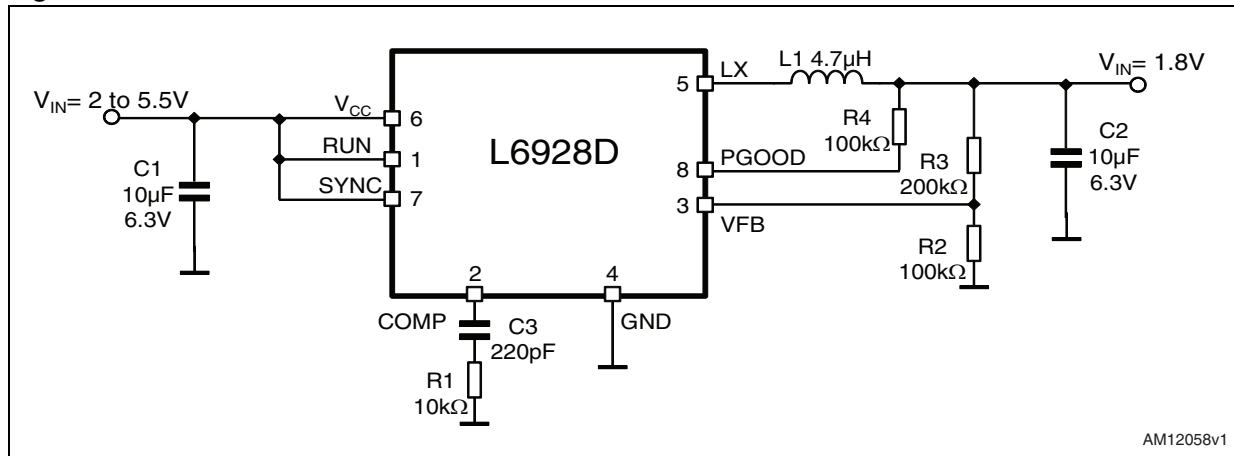
Output voltage can be selected by an external divider down to 0.6 V.

Duty cycle can saturate to 100%, allowing low dropout operation.

The previous part number for this demonstration board was EVAL6928D.

# 1 Circuit schematic

Figure 1. Circuit schematic



## 2 Revision history

**Table 1. Document revision history**

Date	Revision	Changes
15-Mar-2012	1	Initial release.

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