STEVAL-ISA079V2

High-efficiency monolithic synchronous step-down regulator based on the L6928

Data brief

Features

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



STEVAL-ISA079V2

Description

The STEVAL-ISA079V2 demonstration board is based on the L6928 DC-DC monolithic regulator, specifically designed to provide extremely high efficiency.

The L6928 supply voltage can be as low as 2.0 V, allowing its use in single Li-Ion cell supplied applications.

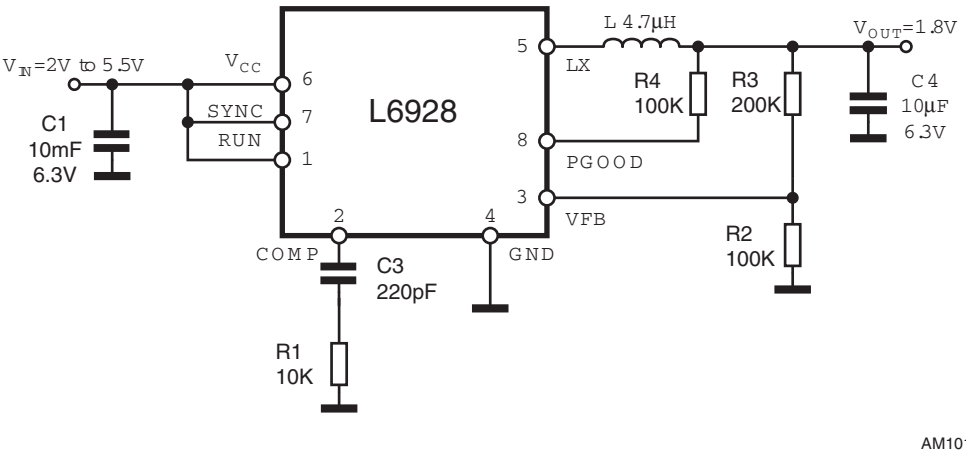
The output voltage can be selected by an external divider down to 0.6 V. The duty cycle can saturate to 100%, allowing low dropout operation.

Note: Previous part number EVAL6928Q1

For further information contact your local STMicroelectronics sales office. www.st.com

1 Application diagram

Figure 1. Application diagram



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
23-Sep-2011	1	Initial release.
06-Oct-2011	2	Minor text changes on coverpage.

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