

### STEVAL-ISA090V1

## 3.5 A step-down switching regulator based on the L4973

Data brief

#### **Features**

■ Input voltage range: 8 V to 55 V

 Output voltage: 5.1 V ± 3% (line, load and thermal)

■ Output ripple: 51 mV

■ Output current range: 1 mA to 3.5 A

■ Max output ripple current: 30%

■ Current limit: 4.5 A

Switching frequency: 150 kHz

RoHS compliant

### **Description**

The STEVAL-ISA090V1 demonstration board provides a platform for evaluation of the L4973, a 3.5 A step-down monolithic power switching regulator operating in continuous mode.

Based on the selection of the external components, the device can operate in the entire input voltage range of 8 V < V $_{\rm IN}$  < 55 V. The output voltage is limited by the voltage rating of the output capacitor, so it can be adjusted within the 3.3 V < V $_{\rm OUT}$  < 30 V range through voltage divider R $_{\rm 3}$ , R $_{\rm 4}$ . The input and output capacitors are capable of sustaining the RMS current within the operating range.

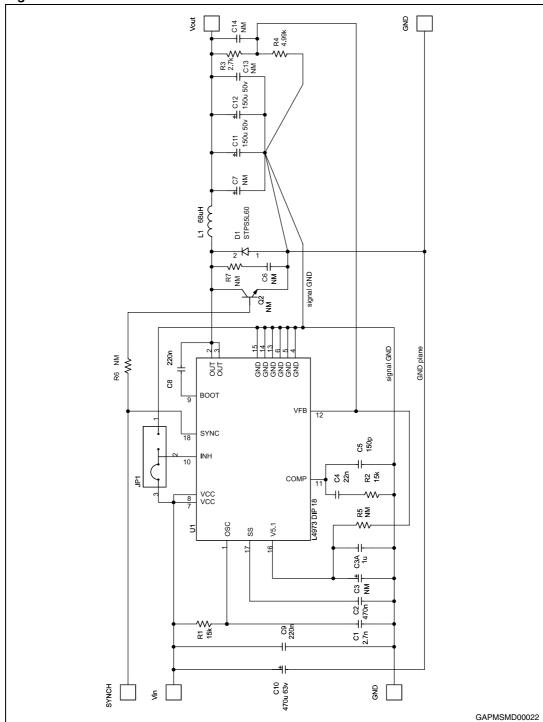


STEVAL-ISA090V1

Schematic diagram STEVAL-ISA090V1

## 1 Schematic diagram

Figure 1. STEVAL-ISA090V1 circuit schematic



STEVAL-ISA090V1 Revision history

# 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
01-Apr-2011	1	Initial release.

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