

STEVAL-ISA025V1

Step-down DC-DC converter at 3.3 Vout/20 A and switching frequency of 400 kHz evaluation board based on L6730

Data Brief

Features

■ Input voltage, Vin: 4.5 to 14 V

Output voltage: 3.3 V

■ Selectable switching frequency

■ Overvoltage protection

■ Thermal shut-down

Description

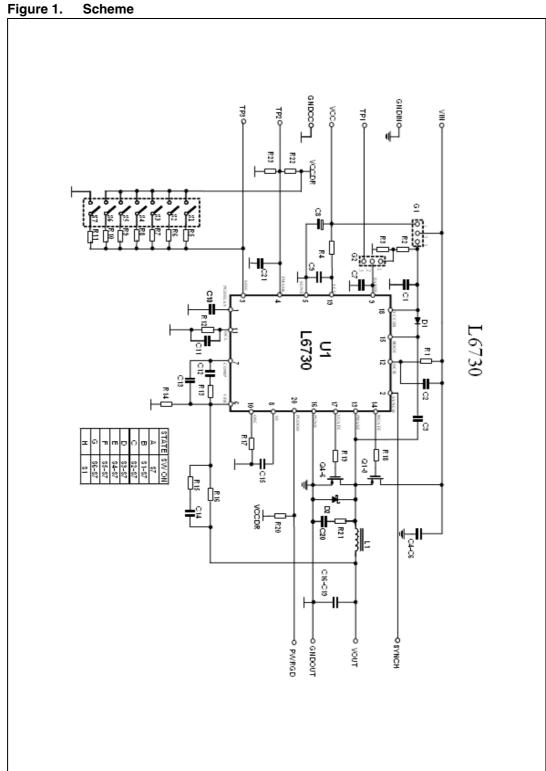
This 4-layer PCB demoboard implements a step-down DC/DC converter and shows the operation of the L6730 device in a general-purpose application. The input voltage can range from 4.5 V to 14 V and the output voltage is 3.3 V. The module can deliver an output current in excess of 30 A. The switching frequency is set at 400 kHz (controller free-running FSW), but it can be increased up to 1 MHz. A 7-position dip-switch selects the UVLO threshold (5 V or 12 V bus), the OVP intervention mode and the sink-mode current capability.



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STEVAL-ISA025V1 **Board schematic**

Board schematic 1



STEVAL-ISA025V1 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Aug-2007	1	Initial release.

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