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STEVAL-CBL006V1

Demonstation board: power supply for LNB based on the LNBH24 (QFN32)

Data Brief

Features

- Complete interface between LNBs and I²C bus
- Built-in DC-DC converter for single 12 V supply (8 V to 15 V Vin range) operation and high efficiency (typ. 93%@0.5 A)
- Compliant with main satellite receivers output voltage specification
- Accurate built-in 22 kHz tone generator meets widely accepted standards (patent pending)
- Fast oscillator start-up facilitates DiSEqC[™] encoding
- Built-in 22 kHz tone detector supports bidirectional DiSEqC[™] 2.0
- Over-load and over-temperature internal protections with I²C diagnostic bits
- Output voltage and output current level diagnostic feedback by I²C bits
- LNB short circuit dynamic protection
- +/- 4 kV ESD tolerant on output power pins
- Based on LNBH24 in QFN32 package

Description

The demonstration board STEVAL-CBL006V1 implements a DC-DC converter based on the device LNBH24. It gives good performance in a simple and cheap way and minimum external components are required. It includes all the functions that allow the design of a dual tuner STBs with supplying/interfacing function in accordance with the international standards. It also includes an I²C bus interface and, thanks to a fully integrated step-up DC-DC converter, it works with a single input voltage supply in the range of 8 V to 15 V.

For further information contact your local STMicroelectronics sales office.

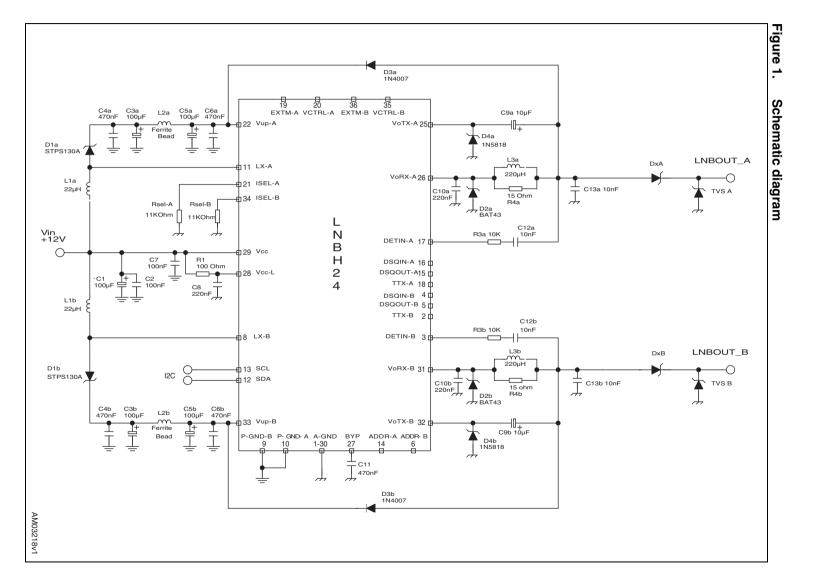


STEVAL-CBL006V1

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2 Revision history

Table 1.Document revision history

Date	Revision	Changes
19-Feb-2009	1	Initial release.



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