



Wide range (90 V - 265 V) input, 5 V - 12 W output demonstration board with improved standby performance based on VIPER27LN

Data brief – preliminary data

Features

- V_{in} : 90 V - 265 V
- V_{out} : 5 V
- P_{out} : 12 W
- Very low standby consumption
- Overload protection
- Secondary winding short-circuit protection
- Output overvoltage protection
- Brownout protection
- ENERGY STAR® compliant
- RoHS compliant



Description

The STEVAL-ISA103V1 is a wide range input demonstration board based on the VIPER27LN and suitable for several consumer applications, such as LCD or plasma TVs, some models of DVD recorders, set-top boxes with hard disk, and also desktop computers.

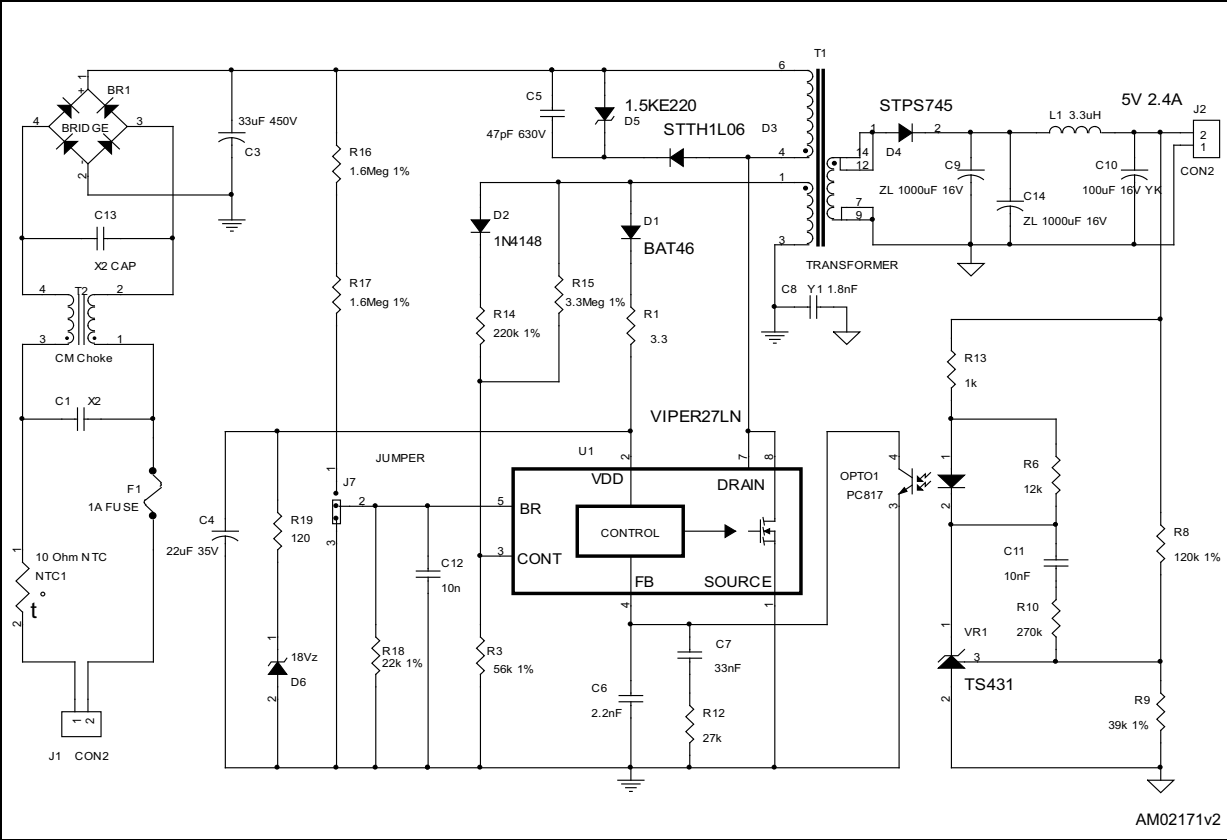
The STEVAL-ISA103V1 includes two modules: the main power supply that provides most of the power and is off when the application is in standby mode and the auxiliary power supply that provides energy for specific peripherals such as USB ports, remote receivers, and modems.

The auxiliary power supply is also on when the application is in standby mode and it is often required that its input power be as low as possible.

The STEVAL-ISA103V1 meets the specifications of a wide range of auxiliary power supplies for the above mentioned applications and is optimized for very low standby consumption, helping to meet the most stringent energy-saving requirements.

1 Circuit schematic

Figure 1. Circuit schematic



2 Revision history

Table 1. Document revision history

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

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