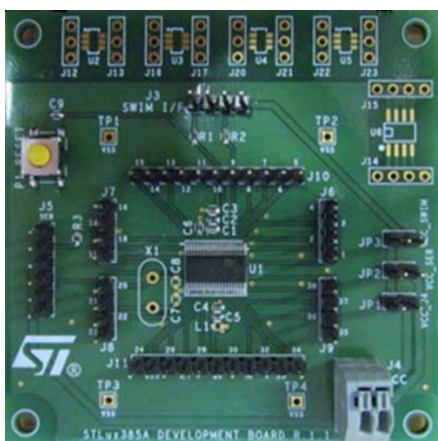


## STLUX385A product evaluation board

Data brief



### Description

The STEVAL-ILL068V1 helps designers to familiarize themselves with the STLUX385A device and the innovative SMED (state machine, event driven) functionality.

A convenient GUI helps to quickly generate the SMED configuration appropriate for the desired application. The external pins make it easy to insert SMED events and capture the SMED-controlled PWM clock. Alternatively, the application circuit can be driven directly from the product evaluation board.

A dedicated UART TTL to USB cable is available for communication with the STLUX385A. The cable is used to connect the board to a PC running a terminal utility.

Application-wise, the serial interface can be used to extend the STLUX communication capabilities via a Bluetooth®, Wi-Fi or powerline modem.

The STEVAL-ILL068V1 can be powered up in three different ways: using an external power supply, via the USB TTL cable or via the SWIM interface.

The board features several free footprint areas, ideal for connecting power drivers or amplifiers.

An additional free PCB footprint allows the user to connect a quartz clock, which can be used in place of the STLUX385A internal clocks.

### Features

- All STLUX385A pins available on connectors
- Convenient tool for testing SMEDs
- USB, external or SWIM power supply
- Four SOT23-6 footprint areas
- One SO8 footprint area available
- One external clock (HSE) footprint area
- Reset button
- Serial USB TTL cable available
- RoHS compliant

# 1 Schematic diagrams

Figure 1. STEVAL-ILL068V1 circuit schematic (part 1)

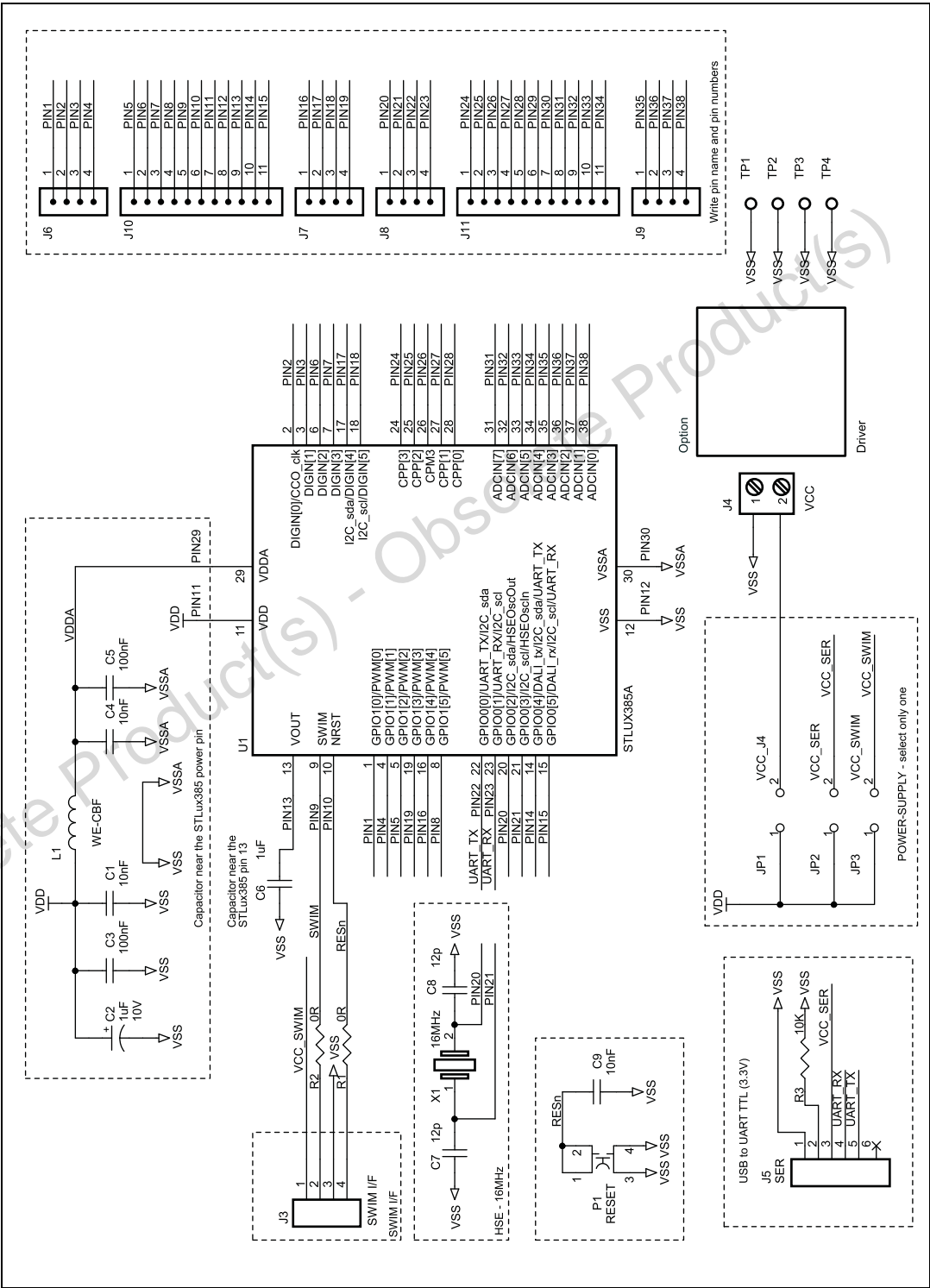
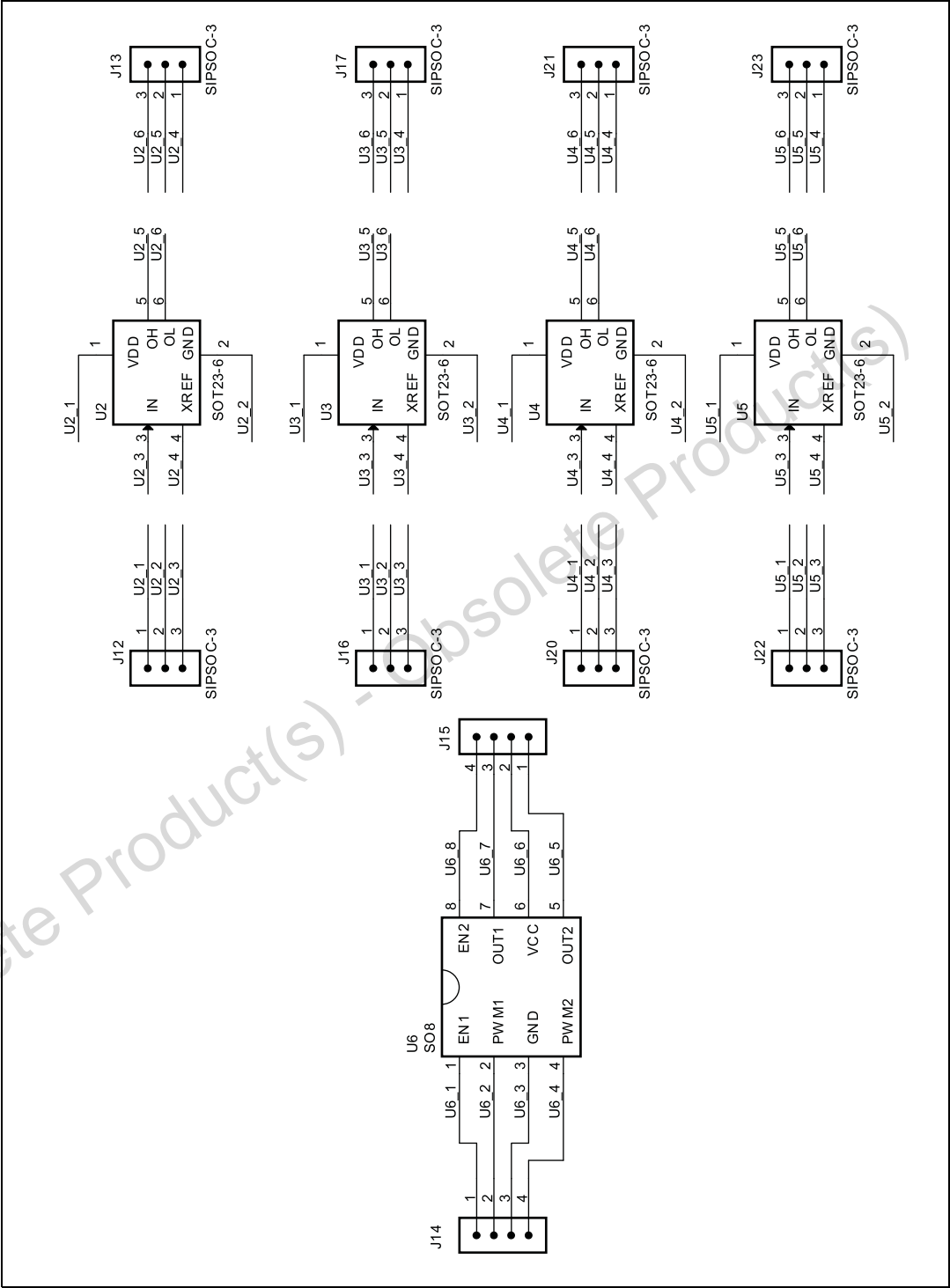


Figure 2. STEVAL-ILL068V1 circuit schematic (part 2)



## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
03-Apr-2014	1	Initial release.
03-Jul-2014	2	Updated main title : <i>STLUX385A product evaluation board on page 1.</i> Minor modifications throughout document.

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