

## USB interface tool for STPMxx family of energy meter ICs

Data brief

### Features

- Connection to an external metrology board
- Microcontroller to implement the bridge function allowing fast data acquisition with local buffering
- Galvanic insulation between the metrology board connector and the microcontroller
- USB connectivity
- RoHS compliant

### Description

The STEVAL-IPE023V1 is a USB interface tool that can be used to interface boards related to the STPMxx family of energy meter ICs.

The STEVAL-IPE023V1 works as a USB bridge between energy meter boards and a PC running the appropriate GUI application to manage the specific IC.



1 Schematic diagrams

Figure 1. TOP

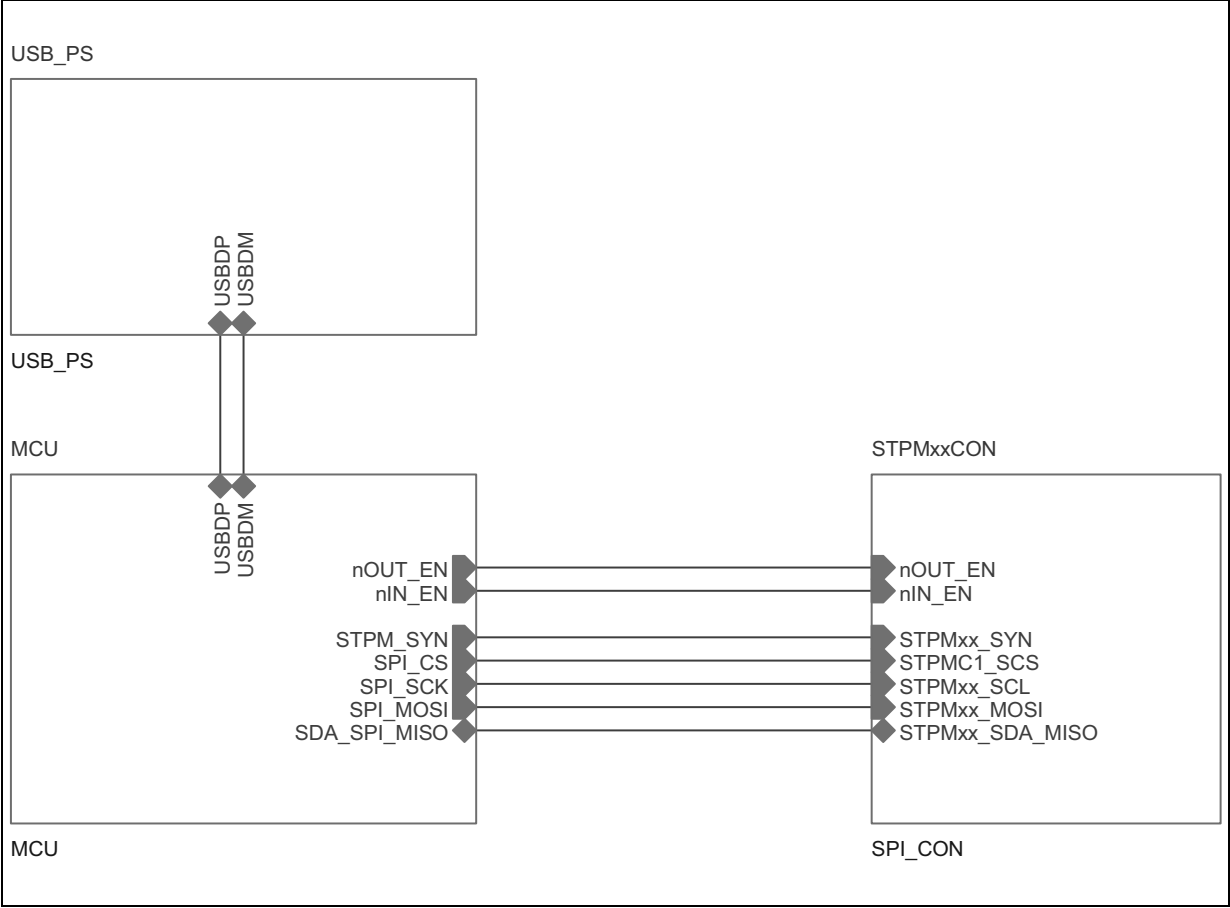


Figure 2. STM32F103

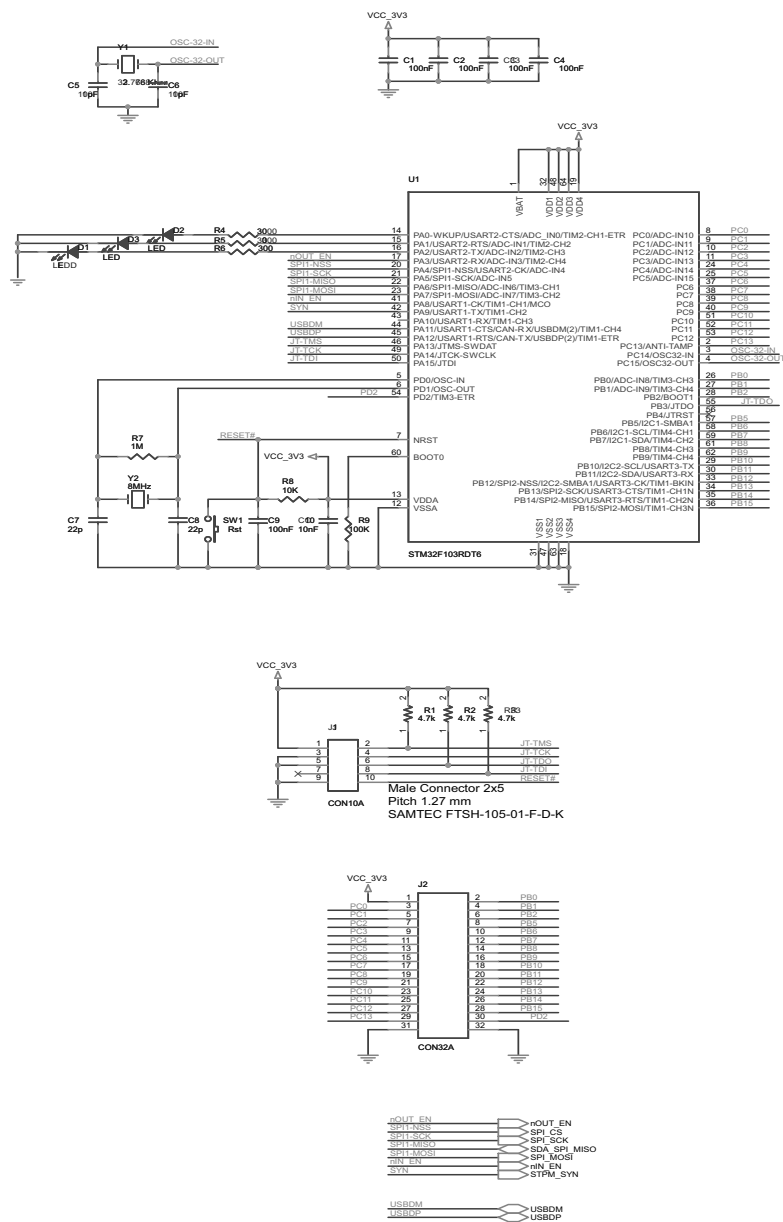


Figure 3. STPMxx connections

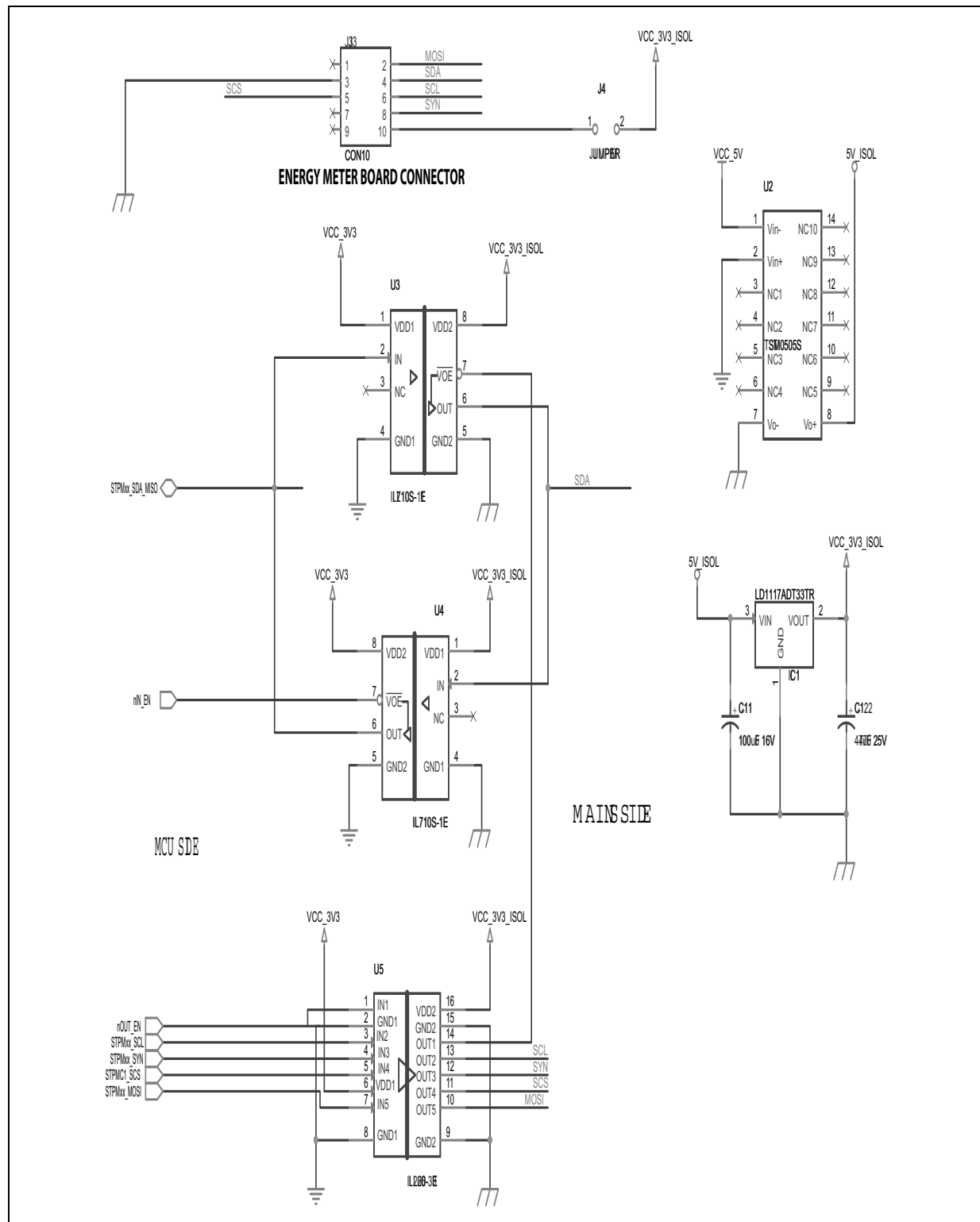
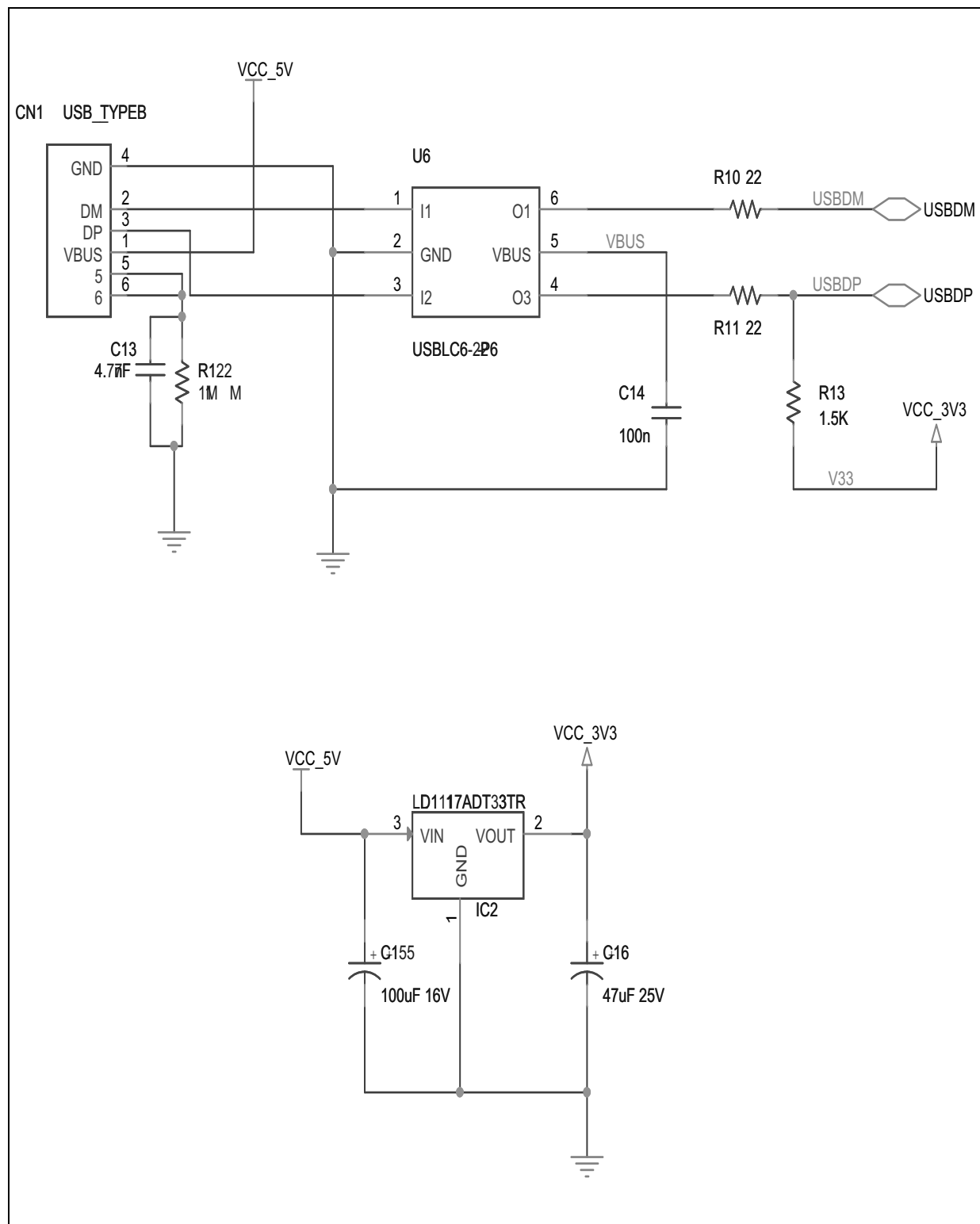


Figure 4. USB and power supply



## 2 Revision history

**Table 1. Document revision history**

| Date        | Revision | Changes               |
|-------------|----------|-----------------------|
| 07-May-2013 | 2        | First public release. |

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