

## STEVAL-IPE017V1

# Single-phase energy metering demonstration board with one shunt resistor based on the STPM10

Data brief

#### Features

- Single-phase, class 0.5 accuracy
- V<sub>nom</sub>(RMS) = 140 to 300 V, I<sub>nom</sub>/I<sub>max</sub>(RMS) = 2/20 A, f<sub>lin</sub> = 45 to 65 Hz
- Capacitive power supply
- SPI interface connector
- RoHS compliant

#### Description

The STEVAL-IPE017V1 demonstration board is a class 0.5, single-phase microprocessor-based meter for power line systems of V<sub>nom</sub> = 140 to 300 V<sub>RMS</sub>, I<sub>nom</sub> / I<sub>max</sub> = 2/20 A<sub>RMS</sub>, f<sub>lin</sub> = 45 to 65 Hz and T<sub>amb</sub> = -40 to +85 °C. One shunt resistor is used for current sensing.

The STEVAL-IPE017V1 demonstration board has a 10-pin connector to be interfaced to a microcontroller or to a PC through a parallel or serial programmer for reading data.

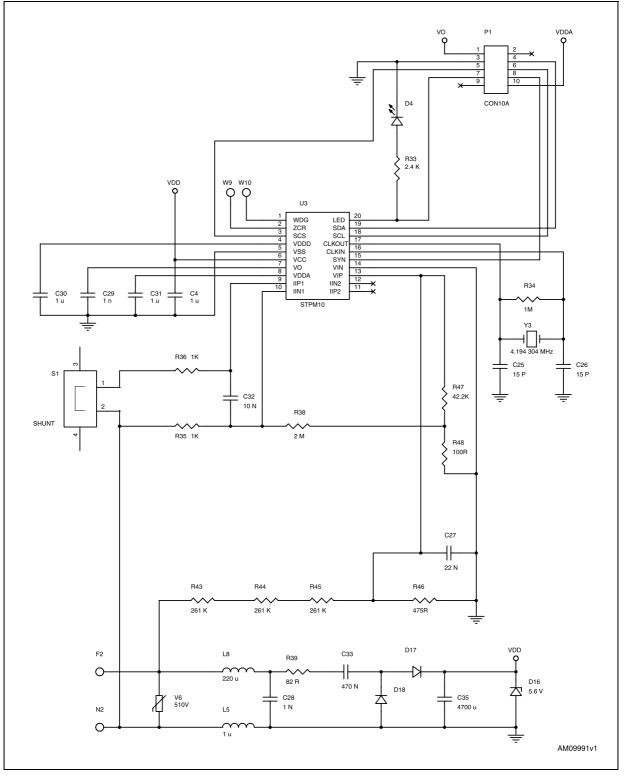


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For further information contact your local STMicroelectronics sales office.

### 1 Schematic

#### Figure 1. Schematic circuit



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## 2 Revision history

Table 1.Document revision history

Date	Revision	Changes
22-Dec-2011	1	Initial release.



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