

STEVAL-IPE018V1

Single-phase energy metering demonstration board with one current transformer based on the STPM10

Data brief

Features

- Single-phase, class 0.5 accuracy
- $V_{nom}(RMS) = 140 \text{ to } 300 \text{ V}, I_{nom} / I_{max}(RMS) = 2/20 \text{ A}, f_{lin} = 45 \text{ to } 65 \text{ Hz}$
- Capacitive power supply
- SPI interface connector
- RoHS compliant

Description

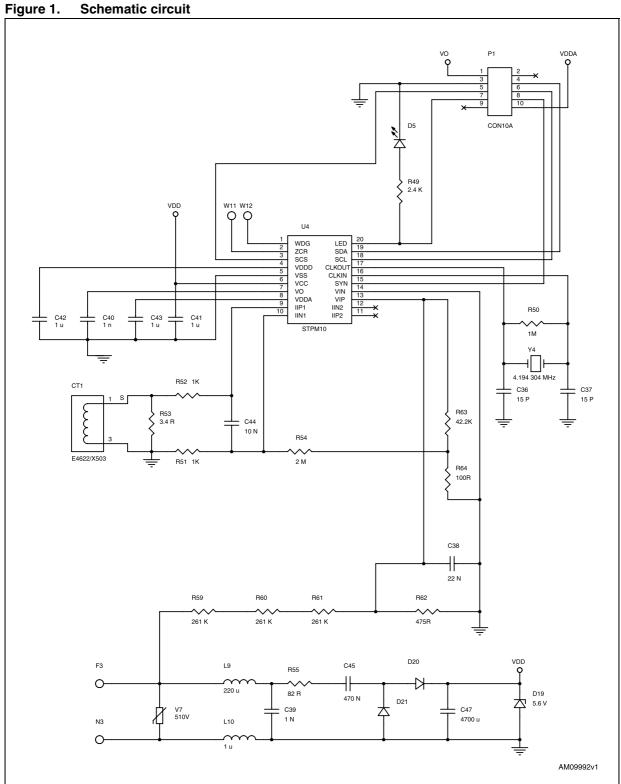
The STEVAL-IPE018V1 demonstration board is a class 0.5, single-phase microprocessor-based meter for power line systems of V_{nom} = 140 to 300 $V_{RMS},\,I_{nom}\,/\,I_{max}$ = 2/20 $A_{RMS},\,f_{lin}$ = 45 to 65 Hz and T_{amb} = -40 to +85 °C. One current transformer is used for current sensing.

The STEVAL-IPE018V1 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.



STEVAL-IPE018V1 **Schematic**

Schematic 1



STEVAL-IPE018V1 Revision history

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Table 1. Document revision history

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

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