

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_{nom}(RMS) = 140 to 300 V, I_{nom}/I_{max}(RMS) = 2/20 A, f_{lin} = 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_{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 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.

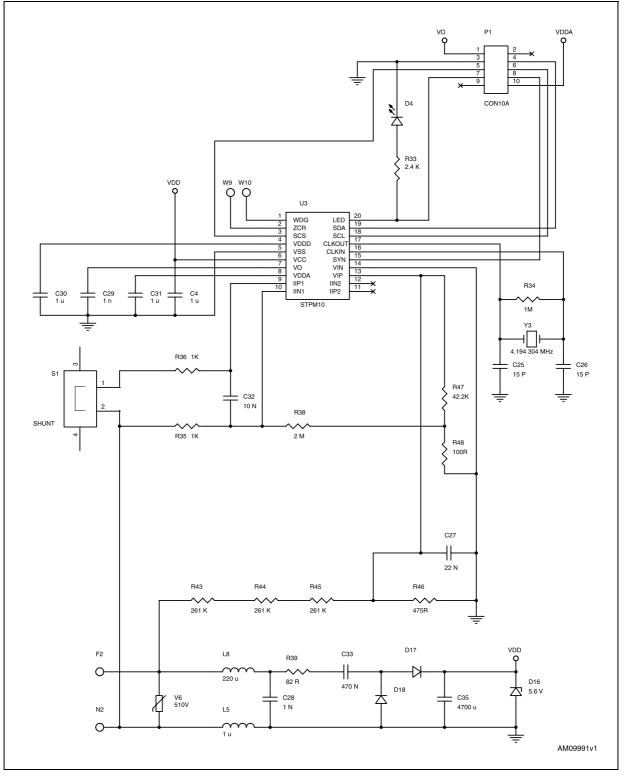


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For further information contact your local STMicroelectronics sales office.

1 Schematic

Figure 1. Schematic circuit



Doc ID 022629 Rev 1



2 Revision history

Table 1.Document revision history

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



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