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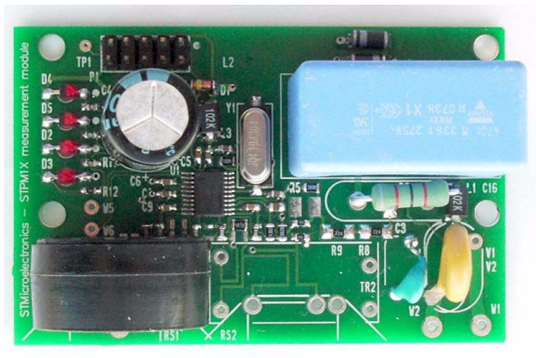
STEVAL-IPE018V1

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 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



STEVAL-IPE018V1

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.

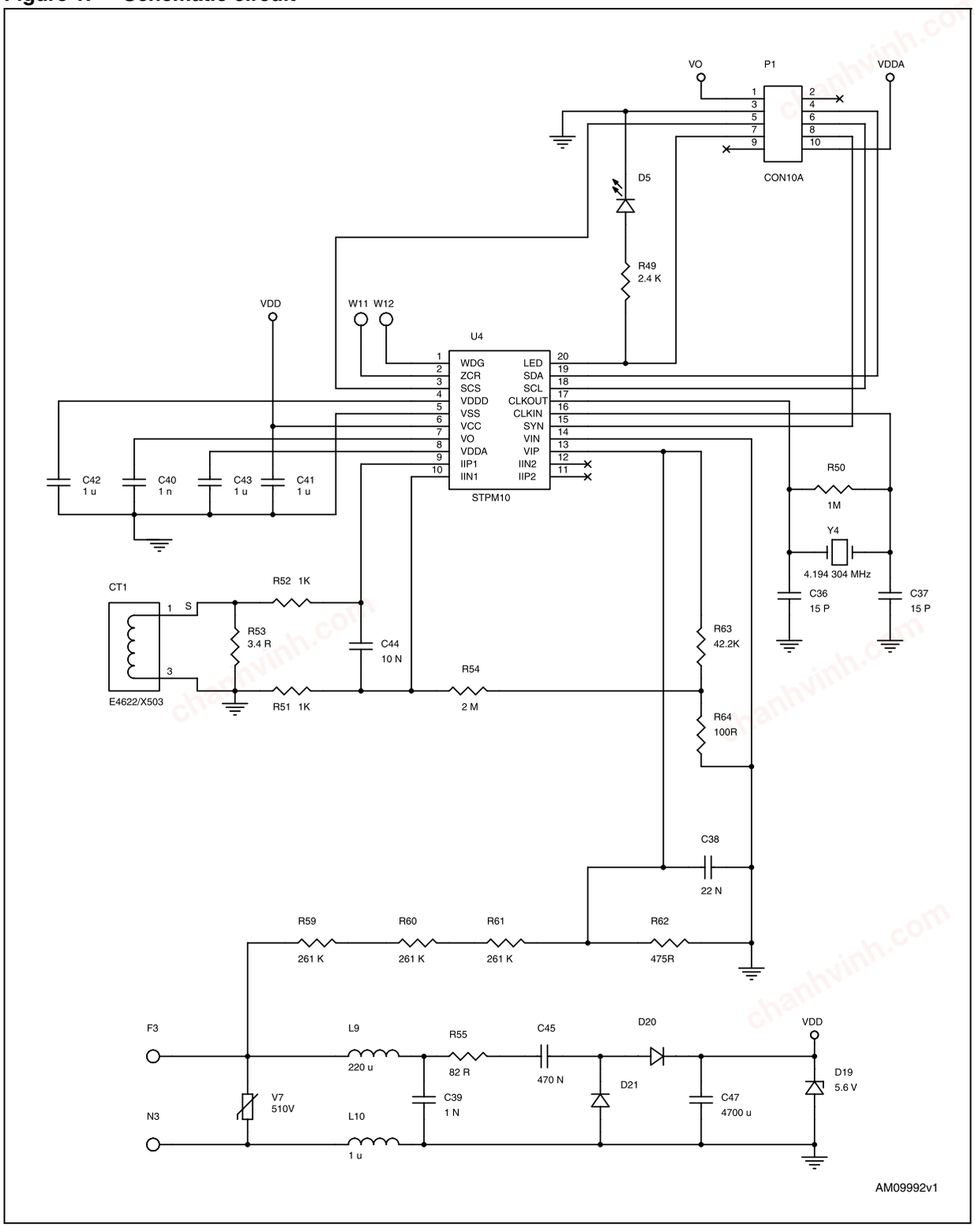
The STEVAL-IPE018V1 demonstration board has a 10-pin connector to be interfaced to a microcontroller or to a PC through a parallel or serial programmer for reading data.

For further information contact your local STMicroelectronics sales office. www.st.com

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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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