



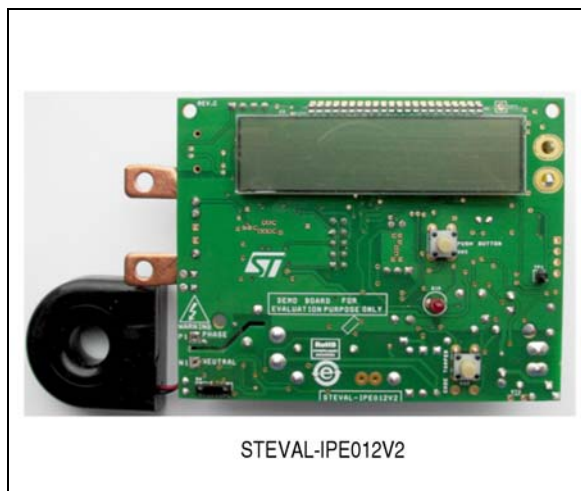
STEVAL-IPE012V2

Single-phase electricity meter with 10 A / 80 A current range
based on the STPM10 and STM8L152

Data brief

Features

- Accuracy: class 1 with dynamic range 200: 1
- Nominal voltage: 240 V
- Nominal current: 10 A (I_{TYP})
- Maximum current: 80 A (I_{MAX})
- Operating range: 0.6 Vb to 1.2 Vb
- Meter constant: 3200 impulses/kWh
- Power frequency range: 45 Hz to 65 Hz
- Sensor: primary side CT and secondary side Shunt
- Communication interface: IrDA
- RoHS compliant



Description

The STEVAL-IPE012V2 demonstration board implements a single-phase energy meter based on the STPM metering IC and STM8L152 microcontroller.

The STEVAL-IPE012V2 demonstration board is a fully functional single-phase solution with parameter display, tamper management, maximum demand (MD) calculation, EEPROM data logging, and low-power management.

1 Schematic diagrams

Figure 1. Schematic diagrams (part 1)

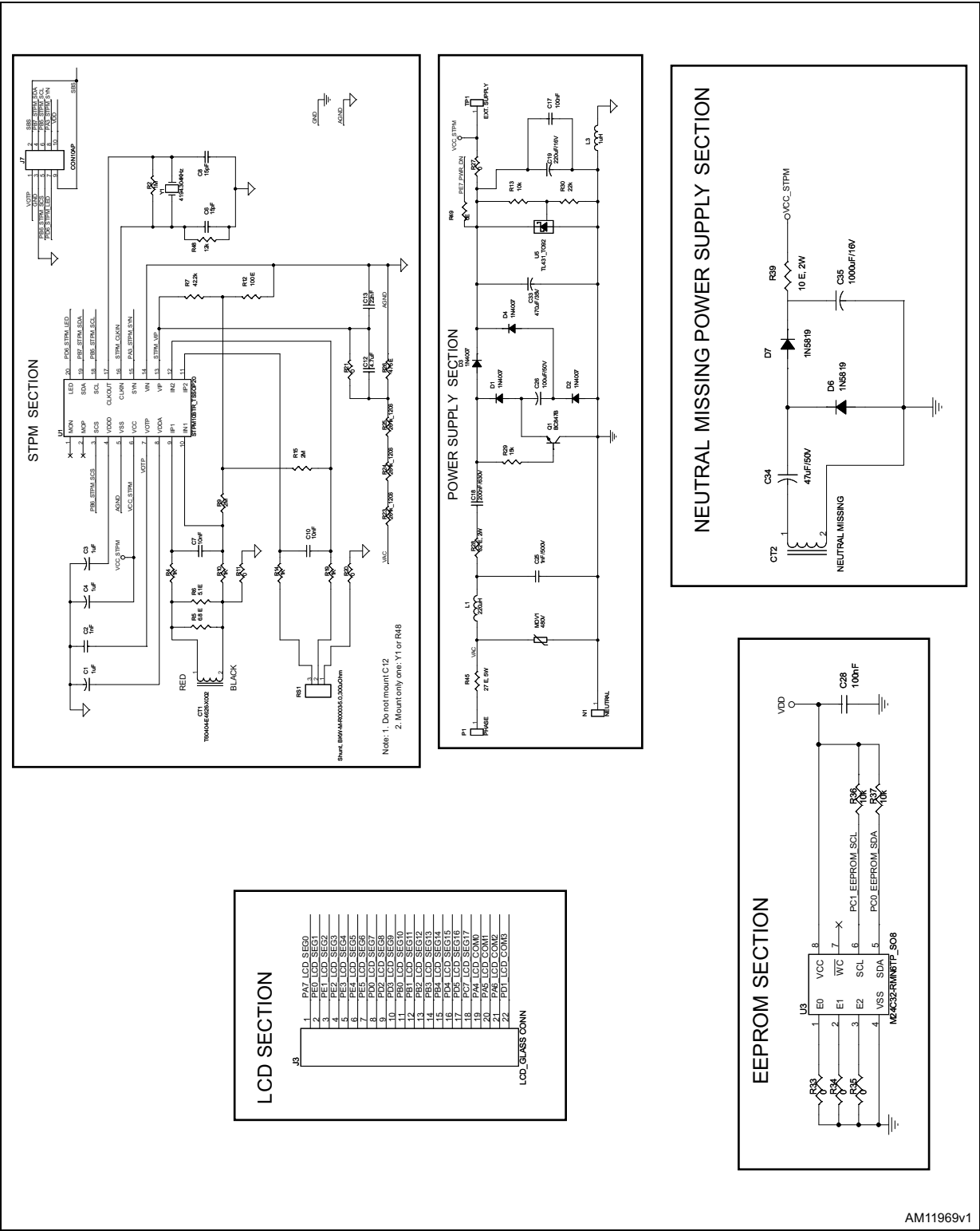
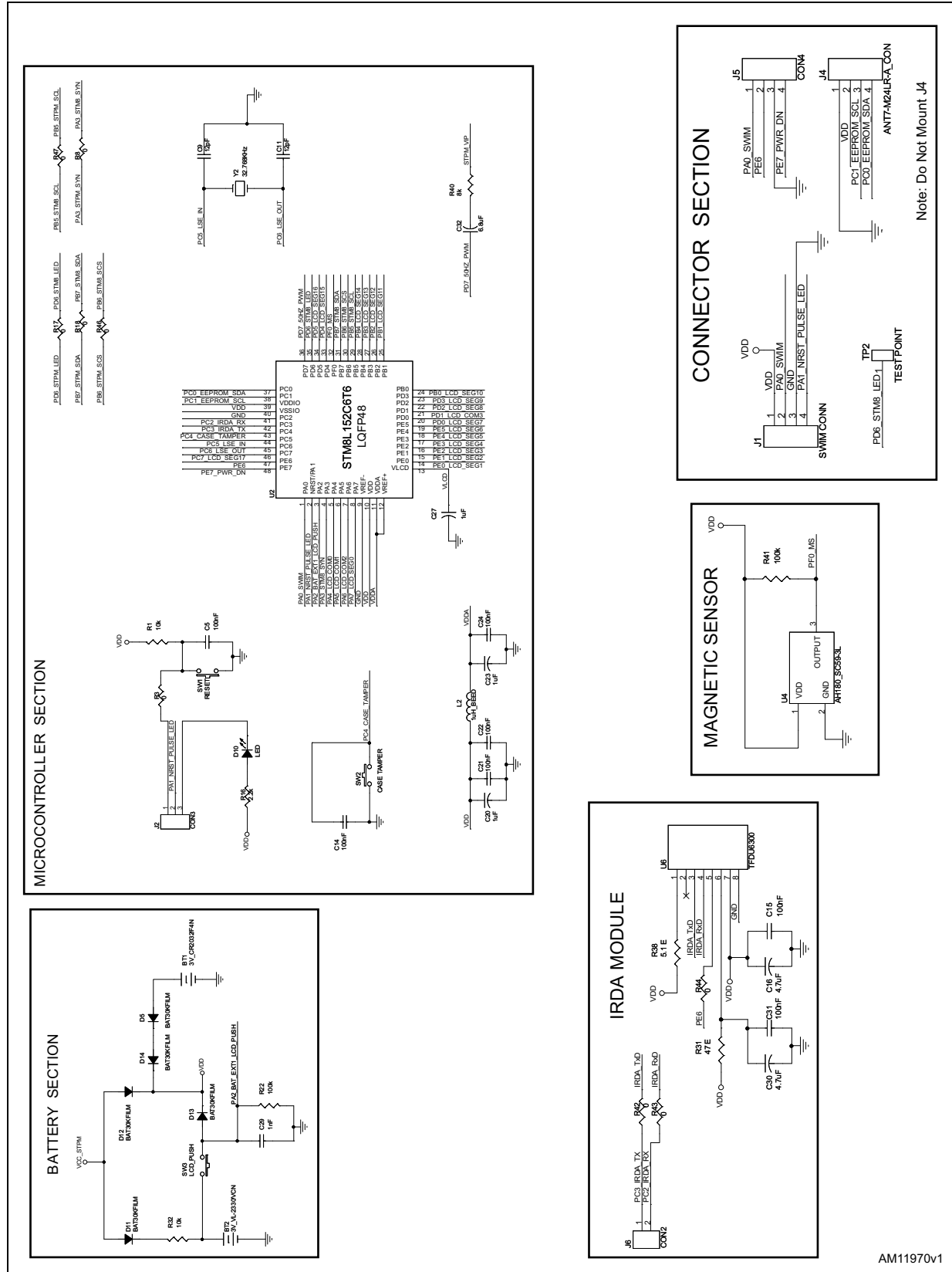


Figure 2. Schematic diagrams (part 2)



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
20-Feb-2012	1	Initial release.
28-Feb-2012	2	Modified: title

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