



The Open Hardware Smart Meter  
that powers the smart energy revolution

# Smart Meters

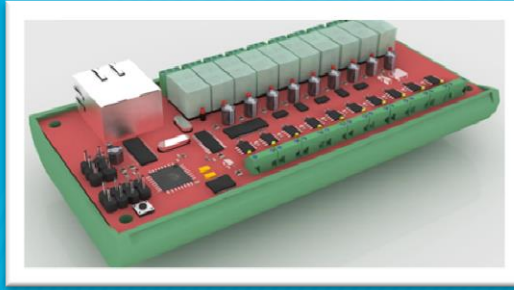


There are lots of smart meters and a huge market:

- Measure whole household energy consumption, mostly for billing
- Lots of regulation and entrenched players
- Proprietary solutions and competing standards

These meters are made for public utility companies

# ***Open Hardware Smart Meter***



OpenStrom enables all other smart energy applications:

- Measure and control of 10 circuits
- Wifi connectivity
- **Open** design, interfaces, firmware & backend

Our meter is made for makers & integrators

# Target Specs

Component	Characteristics
MCU	80 MHz 512k kB + 128 MB
Connectivity	LAN, Wifi ZigBee
Sensors	Voltage, current, mean active power, mean reactive power, voltage frequency, power factor, phase angle between voltage and current, mean apparent power 90 - 250 V AC 0 – 40A 7.4 kHz sampling
Relays (10x)	Switching up to 40A at 250V, max. 10kW
Form factor	DIN rail compatible housing (for mounting inside fuse box)

Operating temperature range: 0°C to 85°C (commercial)

# ***Enabling Smart Energy Applications***

## **Measurement**

Power, current (active & reactive), voltage, power factor  
with high sampling rates (kHz)

## **Monitoring / Energy Disaggregation**

Which appliances are running? How can I optimize consumption?

## **Detection of issues / Energy states**

Any equipment malfunctioning (like a blocked pump)?

# ***Competitive Analysis***

- **Home Automation** focus on appliances
- **Smart Meters** focus on total energy consumption (utility companies)
- **DIY** lacks required certifications and safety marks

OpenStrom provides a solution to combine these requirements with an open platform that wins on # of circuits, switching functionality, price and availability.

# ***Founder & Team***



## **Matthias Zeitler**

15 years experience in enterprise software;  
managing remote teams and international  
sourcing  
corporate career & startup experience

## **Engineering team to build prototype:**

**Tony Tachev**, 20 years experience as embedded engineer designing with microcontrollers

**Franklin Francis**, 5 years experience with firmware development and prototyping  
plus identified candidates for software development

# Easy Business Model

**Sell hardware, start on  
Kickstarter then grow channels**

Device for 10 power circuits at  
€100 to €150

**License specialized algorithms**

Energy disaggregation and  
faulty state detection

