

Infineon's products enable Smart Grids

A Smart Grid is an upgrade of existing grids towards a stable, clean and secure future. It combines six key concepts in an intelligent way. These 6 concepts are:

- 1** **Renewable energies** to produce electricity without CO₂ emissions
- 2** **Advanced transmission** to transport electricity to where it is needed with lowest losses
- 3** **EV charging and energy storage** for clean traffic and storage of excessive energy
- 4** **Grid and smart meter security** to guarantee stable and secure energy supply
- 5** **Smart metering** to balance electricity consumption and available supply
- 6** **Energy-efficient consumption** to maximize efficiency and reduce carbon footprint

Ask Infineon.
Get connected with the answers.
Where you need it. When you need it.

Infineon offers its toll-free 0800/4001 service hotline as one central number, available 24/7 in English, Mandarin and German.

Our global connection service goes way beyond standard switchboard services by offering qualified support on the phone. Call us!

- Germany..... 0800 951 951 951 (German/English)
- China, mainland 4001 200 951 (Mandarin/English)
- USA 1-866 951 9519 (English/German)
- Other countries 00* 800 951 951 951 (English/German)
- Direct access +49 89 234-0 (interconnection fee, German/English)

* Please note: Some countries may require you to dial a code other than "00" to access this international number, please visit www.infineon.com/service for your country!

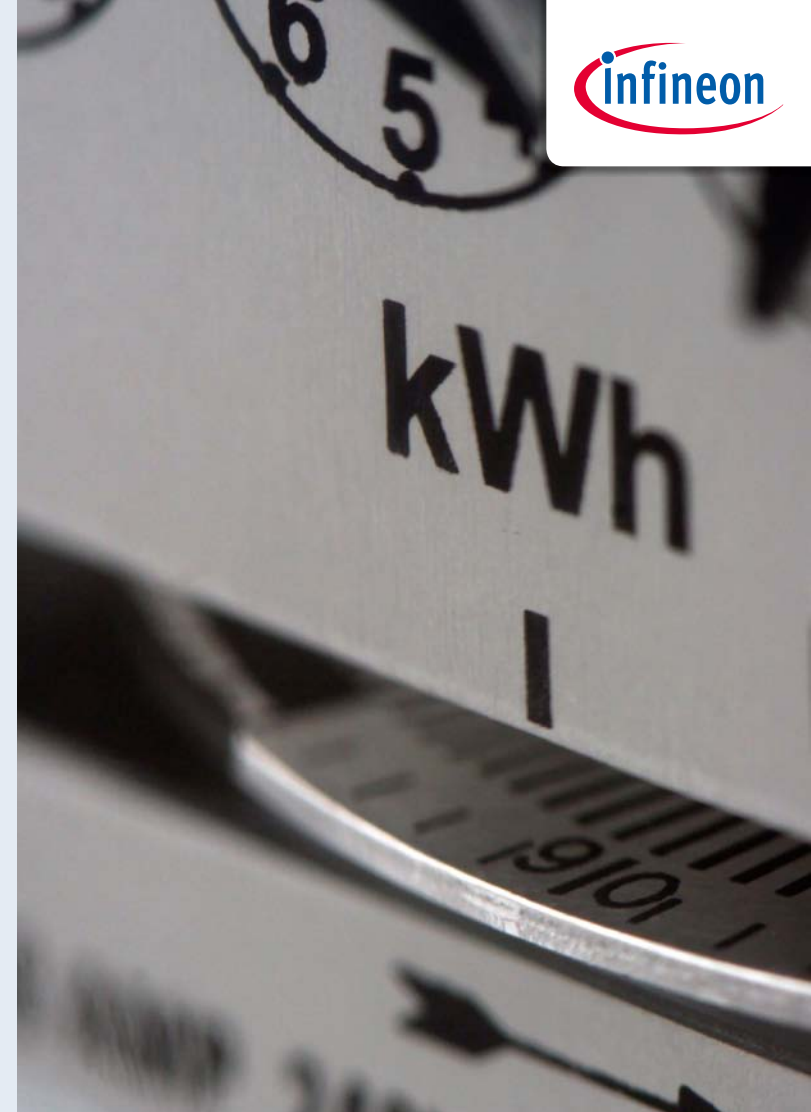
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Smart Meter Products

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Infinion provides semiconductor solutions for all smart metering applications



Electric Energy Meter

Highly integrated and cost-effective ICs based on ARM Cortex, high-endurance Flash memory, a complete energy metrology engine as well as a highly accurate, low-power, temperature-compensated RTC, LCD drivers and a large set of peripherals including a dedicated cryptographic engine.



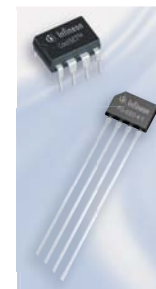
Gas, Water and Heat Meter

Very low-power, embedded Flash ICs based on ARM Cortex with dedicated flow metering peripherals and direct valve drive. With a highly accurate, low power, temperature-compensated RTC, LCD driver and large set of peripherals including a dedicated cryptographic engine.



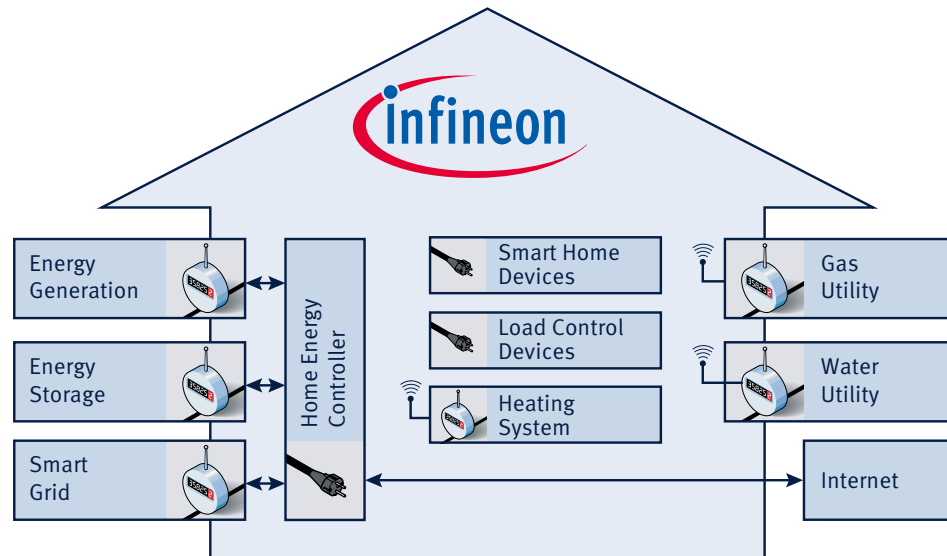
Communication

A software-defined modem suited to PLC and RF allows flexibility and the possibility to field-update the modulation scheme and protocol stack. Supported modulation schemes include OFDM, DSSS, FSK, and B-PSK. A dedicated crypto engine is also embedded.



Power Supply, Sensing and RF

Hall solutions for current, position and angle sensing; low-power, high-sensitivity radio transceivers covering the sub 1-GHz band as well as linear and high-efficiency switched-mode power supply (AC/DC, DC/DC).



Infinion provides a new class of Integrated Circuits dedicated to smart metering and home energy control, utilizing its world class reliable technology and designed to meet customer needs today and in the future. Together with its key customers Infineon is active in continuously revising

its smart meter and smart home roadmap to anticipate market evolution. Thanks to its broad portfolio of power modules, sensing, security, RF and power management ICs, Infineon offers complete solutions not only for smart meters but also for all smart grid applications such as generation, transmission & distribution, electrical vehicles and efficient consumption.