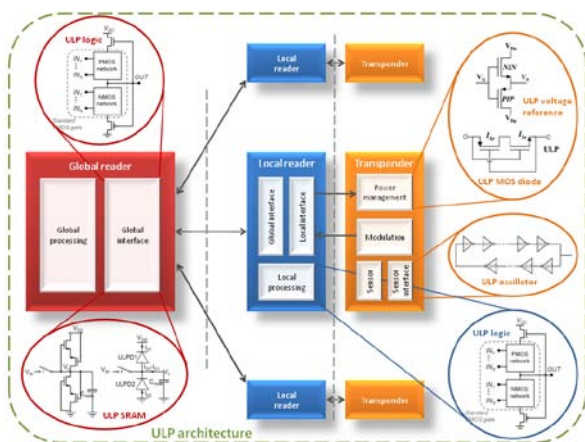


ULTRA-LOW-POWER TECHNOLOGIES FOR WIRELESS MONITORING SYSTEMS

Sopartec, the technology transfer company of the Université catholique de Louvain (UCL), presents unique ultra-low-power technologies covered by several patents.



Technology Keywords

- Ultra-low Power (ULP)
- Sensing components
- fully-integrated CMOS chip

Technology Market : Sensors

Wireless integrated sensors are the key technology to improve productivity and quality in the following fields :

- **Health care** : patient monitoring, blood bag tracking, samples measurements, pathogen detection ;
- **Environment** ;
- **Building and vehicle control** : structural health monitoring, environment conditions monitoring ;
- **Product manufacturing** : process monitoring, goods tracking, control of food storage conditions, crops monitoring.

The unique ultra-low-power technologies from UCL meet the market demand for massive deployment of microscopic integrated **sensing components** in wireless monitoring systems.

The UCL invention

UCL ultra-low-power (ULP) technologies form a series of microelectronics patents that enables the building of **sensing components**. Each component is a microscopic **fully-integrated CMOS chip**, with unreached power consumption levels in both active and stand-by modes. Typical **active power** is lower than **10 μ W**, while **stand-by power** can be as low as **1nW**. UCL technologies feature low production cost as components can be manufactured in any CMOS semiconductor process, while keeping their ultra-low-power characteristics.

Technology Status

This work is the subject of patent applications :

- PCT patent application filed on 30/07/2008 and published under No. WO 2008/132210 ;
- PCT patent application filed on 22/01/2009 and published under No. WO 2009/092771 ;
- PCT patent application filed on 17/12/2001 and published under No. WO0250911.

(internal file reference numbers : ADRE-15, ADRE-17 and SOP-123)

Sopartec would like to talk to companies interested in developing and commercializing this opportunity.

Contact

Frédéric Ooms, Ph.D.
Senior Patent & Licensing Manager

Tel +32-(0)10-390 021

Email f.ooms@sopartec.com

Web www.sopartec.com
www.uclouvain.be