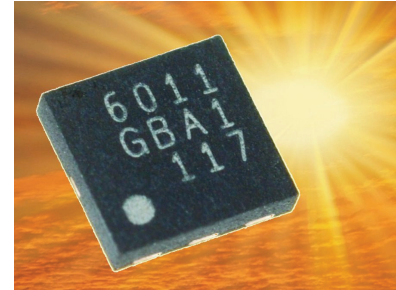


## Solar Cell Energy Harvesting System Manager

Targeted for solar powered wireless modules

**Helsinki, Finland – 02 November 2011** - Micro Analog Systems Oy today announced the MAS6011 Solar Cell Energy Harvesting System Manager.

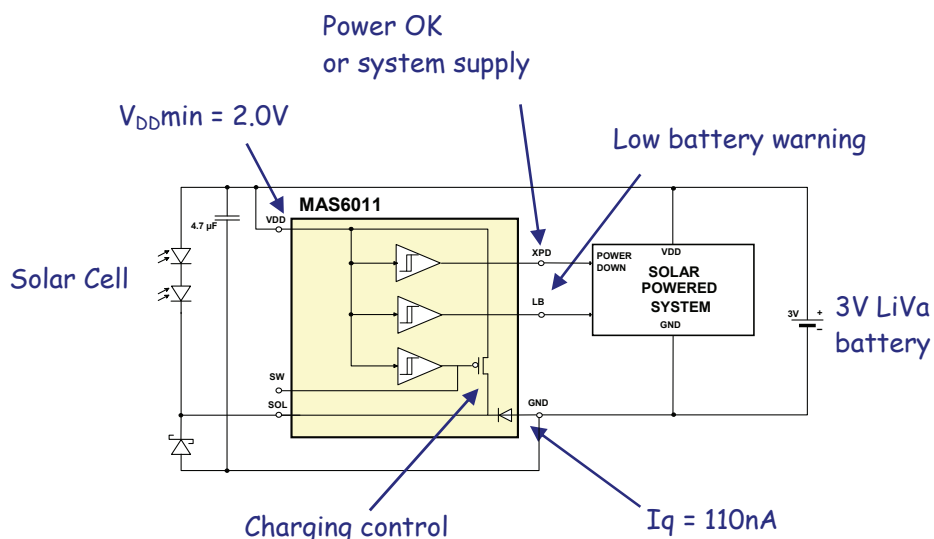
[MAS6011](#) monitors the supply voltage and charging of a battery-powered system containing a small solar cell. The current consumption of this IC is extremely low, 110 nA, which means the system can charge from very low light conditions and also stay in power down mode for years and still operate directly from the battery before recharging.



To be able to charge a battery also in conditions with very limited light, a large solar cell is usually used. This can on the other hand easily destroy the battery due to over voltage during strong sun light. MAS6011 solves this dilemma and will give secure protection of a secondary 3V battery over a big range of light strengths (lx).

The switching levels have been designed for usage with rechargeable 3V Lithium Vanadium (VL-type) batteries. Those batteries are compact, button-shaped, secondary batteries with very high energy compared to more traditional batteries. The self discharge rate is less than 2% a year which makes them very useful as a power source in systems that might be stored for a long time without re-charging.

Possible applications for MAS6011 include Wireless Sensor Modules, GPS Modules, Electronic locks, Watches, Energy Harvesting etc.



## FEATURES

- Ultra Low Current Consumption, typ 110nA
- Low Supply Voltage Operation, min 2.0V
- Battery Overcharging Protection
- Power On Indicator and secure Power ON after shut down
- Deep discharge protection of battery during shut down mode
- Precise Shut Down and Low Battery warning threshold levels
- Suitable for rechargeable 3V Lithium Vanadium (VL-type) batteries

MAS6011 is available in a 6 pin QFN 3x3x0.75mm package and dies on tray. For further information and samples please contact Micro Analog Systems Oy.

## Pricing

MAS6011 in the QFN package is priced at \$0.83 or €0.66 @3K units. For others, please contact Micro Analog Systems or its distributor.

## About Micro Analog Systems

Micro Analog Systems Oy (MAS), founded in 1980, is a privately owned fabless semiconductor company having its headquarter in Helsinki, Finland, and a worldwide network of sales offices and representatives. MAS design and markets low voltage, low power and low noise analog and mixed signal ICs. MAS standard products include Sensor Interface ICs, Time Code Receivers, Solar Cell Managers, Piezo Buzzer Drivers as well as Crystal Oscillators and high end Audio ICs.

## For More Information

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