

## Patrizio

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March 2009

Dear Sandra!

Welcome to the recent edition of austriamicrosystems' product news where you will find the latest news and information about our products and services.

### In this issue you will find news about

- ↓ [AS1116: New 64LED driver with detailed error detection](#)
- ↓ [AS1331: New 300mA, DC-DC Buck-Boost Converter](#)
- ↓ [AS1332-34: New low noise 650mA DC-DC buck regulators for RF power amplifiers](#)
- ↓ [ESC 2009: Visit austriamicrosystems at booth #128](#)

#### AS1116 New 64LED driver with detailed error detection

The AS1116 is a compact LED driver for 64 single LEDs or 8 digits of 7-segments. The devices can be programmed via a SPI compatible 3-wire interface. Every segment can be individually addressed and separately updated. Only one external resistor (RSET) is required to set the current up to 47mA per digit or 5.5mA per LED. Brightness can be controlled by analog or digital means. Additionally the AS1116 offers detailed diagnostic to exactly determine open or shorted LEDs. The AS1116 is available in a tiny 4x4mm package with a height of 0.6mm or a QSOP-24 package.

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#### AS1331 New 300mA, DC-DC Buck-Boost Converter

The AS1331 is a synchronous buck-boost DC/DC converter which can handle input voltages above, below, or equal to the output voltage. The AS1331 offers automatic and smooth transition between buck and boost mode optimized for single cell Li-Ion and multicell alkaline/NiCad/NiMH applications. The AS1331 operates on lowest quiescent current of 22µA only resulting in highest efficiency up to 90% over a wide range of load currents. Combined with a shutdown current of typically 100nA the AS1331 extends the lifetime of battery powered applications to a maximum.

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#### AS1332-34 New low noise 650mA DC-DC buck regulators for RF power amplifiers

The three devices of the AS1332-34 family deliver up to 650mA from an input voltage range of 2.7 to 5.5V making the devices ideal for single Li-Ion cells. The AS1332 is optimized for low power RF amplifiers where the output power is dynamically scaled to improve battery lifetime. An external control voltage is applied to the Vcon input, upon which the output voltage follows the control voltage within a period of 20µs (multiplied by an internal gain of 2.5), varying the output between 1.3 to 3.16V. The AS1334 Ultra low Ripple DCDC Step down with its fixed output voltages is ideal for the supply noise sensitive applications as RF moduls, AD Converters, Sensors and analog signal amplification.



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## ESC 2009

### Visit austriamicrosystems at booth #128

Get to know our latest product innovations at the Embedded Systems Conference Silicon Valley 2009 March 30 to April 4, 2009 San Jose McEnery Convention Center, San Jose, CA 95113 Visit austriamicrosystems at booth #128

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