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NEWS RELEASE

CamSemi C2160 controllers deliver 5 star performance

CamSemi has today announced a new family of Primary Side Sensing (PSS) controllers enabling manufacturers to develop top specification, five star-rated mobile phone chargers – easily and at low cost. The controllers, which are in production, deliver the highest rating in the voluntary star standard for no-load power introduced in November 2008 by the world's five largest mobile phone makers.

The C2160 family allows manufacturers to cut no-load consumption in normal mode to less than 30 mW for chargers up to 8 W for high volume consumer applications but without adding extra components or compromising any other performance specification. They enable fast start-up times of less than 0.3 seconds to help reduce test costs for manufacturers and ensure that handsets start charging from the moment they are plugged in.

Solutions comply fully with Energy Star 2.0, the newly aligned European Code of Conduct v4 regulations for operating efficiency (level V on the adapter/charger nameplate) and support the micro-USB universal charger approach recently endorsed by the EU.

"CamSemi's new controllers will further strengthen our position in the mobile phone market and help manufacturers of high-end chargers to meet the industry's most demanding energy-saving specifications but without adding cost, components or having to compromise performance. C2160 sets a new level for no-load power consumption, while continuing our 'one size fits all' approach so that one controller can be customised for multiple designs," said David Baillie, CEO of CamSemi.

The C2160 family delivers the same key design benefits as the company's existing PSS controllers including: 'best in class' current and voltage regulation of +/- 5% without board level trimming; easily programmable cable compensation of up to 10%; switching frequency adjustment; and quasi-resonant switching to improve efficiency and reduce EMI. C2161PX2 and C2162PX2 parts are rated at 4 W and 8 W respectively and packaged in SOT23-6.

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The new controllers use CamSemi's innovative PSS technology to completely eliminate the need for optocouplers and all secondary-side feedback circuitry; as well as additional components that designers may need to specify to improve the current regulation from a typical PSS flyback design. All controllers are also designed to deliver a much more cost-efficient, energy-saving approach by using low cost bipolar transistors compared with more expensive MOSFETs. Protection features such as over-temperature, input over-voltage and output short-circuit are included as standard to simplify designs and further reduce system costs.

An abbreviated C2160 datasheet is available from www.camsemi.com/support/datasheets with more detailed information and support from CamSemi or one of the company's distributors.

Notes for editors

Micro USB and charger harmonisation

For further information on the industry agreement to harmonise chargers for data-enabled mobile phones sold in the EU with micro-USB as a standard connector please see: <http://ec.europa.eu/enterprise/rtte/chargers.htm>

About CamSemi

CamSemi is the emerging leader in power management ICs for optimised energy-efficient off-line power conversion. The company's unique solutions and approach can help manufacturers of mains-powered electronics develop smaller, lighter and more energy-efficient products while also reducing their design timescales and system costs.

The company was founded to bring to market a new generation of sophisticated power management ICs that help manufacturers more easily meet the world's increasing demand to save energy but at acceptable cost. CamSemi's products are based on its portfolio of patented and proprietary technologies including intelligent control architectures and PowerBrane™ ultra high voltage (UHV) process technology. These breakthrough approaches can benefit multiple markets, although initial products are targeted at the switch mode power supply and lighting sectors.

Further information at www.camsemi.com

Press enquiries

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Photography



The new C2160 PSS controller family allows manufacturers to develop five star-rated mobile phone chargers with no-load power consumptions of less than 30 mW: easily and at low cost.

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