



New Microsemi Boost Controller Cuts Costs in Handheld Appliance Applications

- High efficiency for 1.6V-6.0V Circuits
- Internal MOSFET Design
- Space-saving PCB footprint
- Optimized for Portable Systems

Irvine, Calif. -Business Wire--July 18, 2002 - Microsemi Corporation (Nasdaq: MSCC), announced today the introduction of a second advanced high efficiency, high voltage boost controller for battery-powered applications including pagers, mobile phones, PDAs, handheld computers and LED drivers.

Designated the LX1742™, the new controller features a pseudobysteretic pulse frequency modulation topology designed to deliver greater than 80% efficiency, reduce board size and lower total circuit costs.

Microsemi's newest boost controller adds an internal N-Channel MOSFET to the LX1741™ device it introduced in February. (The LX1741 utilizes external MOSFETs.) Both controllers guarantee start-up operation at 1.6V input and have an input range to 6.0V, facilitating a wide variety of system battery designs. The two controllers provide portable appliance designers with maximum flexibility for their high voltage, very light load current applications.

LX1742 design enhancements provide higher overall performance by implementing control circuitry optimized for portable systems. Quiescent supply current is only 80 μ A (typ.) and shutdown current is less than 1 μ A. Output voltages as high as 25V are programmed easily by using two external resistors in conjunction with the LX1742's feedback pin. Dynamic voltage adjustments of +/- 15% can be achieved by either an analog reference signal or a direct PWM input signal applied to the ADJ pin.

"Like the LX1741 before it, our newest boost controller was designed with specifications we believe meet the very specific needs of our mobile product customers," said Kelly Jones, General Manager of Microsemi Integrated Products. "Now their designers can have the option of building their circuits based on controllers having either internal or external MOSFET functions. This gives them a full range of options to maintain overall system efficiency with a cost-effective solution best suited to their individual design needs," he added.

Complete technical information and data sheets are available on the Microsemi web site, www.Microsemi.com. The LX1742, offered in the industry-standard 8-pin MSOP surface mount package, is priced at \$0.92 in 10K quantities. Samples can be ordered through this site, or from Microsemi sales representatives and franchised distributors.

NOTE: A digital photograph for this press release can be down-loaded from the Microsemi web site, located within the News section found on the home page.

About Microsemi

Microsemi is a leading designer, manufacturer and marketer of analog, mixed-signal and discrete semiconductors. The company's semiconductors manage and regulate power, protect against transient voltage spikes and transmit, receive and amplify signals.

Microsemi products include individual components as well as complete circuit solutions that enhance customer designs by providing battery optimization, reducing size or protecting circuits. Markets the company serves include mobile connectivity, computer/peripherals, telecommunications, medical, industrial/commercial, space/satellite and military.

More information may be obtained by contacting the company directly or by visiting its web site at www.Microsemi.com.

Please read the following factors that can materially affect Microsemi's future results.

"Safe Harbor" Statement under the Private Securities Litigation Reform Act of 1995: Any statements set forth in the news release that are not entirely historical and factual in nature are forward-looking statements. For instance, all statements of belief and expectations are forward-looking statements. Forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified. Potential risks and uncertainties include, but are not limited to, such factors as the difficulties regarding the making of estimates and projections, hiring and retention of qualified technical personnel in a competitive labor market, acquiring and integrating new operations or assets, closing or disposing of operations or assets, rapidly changing technology and product obsolescence, the ability to realize cost savings or productivity gains, the ability to improve capacity utilization, potential cost increases, the strength and competitive pricing environment of the marketplace, demand for and acceptance of the company's products, the results of in-process or planned development, marketing and promotional campaigns, changes in demand for products, difficulties foreseeing future demand, effects of limited visibility of future sales, potential non-realization of expected orders or non-realization of backlog, business and economic conditions or adverse changes in current or expected industry conditions, business disruptions, future effects of the tragic events of Sept. 11, customer order preferences, fluctuations in market prices of the company's common stock and availability of additional capital on favorable terms, difficulties in implementing company strategies, environmental matters, litigation, difficulties protecting patents and other proprietary rights, inventory obsolescence. In addition to these factors and any other factors mentioned elsewhere in this news release, the reader should refer as well to the factors, uncertainties or risks identified in the company's most recent Form 10-K filed on Dec. 24, 2001, the Form 10-Q filed on Feb. 13, 2002, and May 10, 2002, and the final prospectus on Form S-3 filed on June 1, 2000, each filed by the company with the Securities and Exchange Commission. The company does not undertake to supplement or correct any information in this release that is or becomes incorrect.

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