



Cirrus Logic CS1501, CS1601 Digital Power Factor Correction ICs Improve Power Supply System Performance and Simplify Designs

ICs Beat Legacy Analog Chips in Efficiency and Distortion Performance, Require Fewer External Components

AUSTIN, Texas--(BUSINESS WIRE)-- With the introduction of the CS1501/CS1601, Cirrus Logic Inc. (Nasdaq: CRUS), a leader in high-precision analog and digital signal processing components, continues to expand its line of digital power factor correction (PFC) ICs and sharpen its focus on new digital energy control-related products. Much like the CS1500/CS1600, which were introduced in 2010, these new digital PFC devices compete head-to-head with legacy analog PFC controllers by offering superior performance and allowing for simpler and smaller system designs.

The CS1501 and CS1601 are digitally controlled, variable frequency discontinuous conduction mode (VF-DCM), active power factor correction ICs intended for use in switch-mode power supplies rated up to 300 watts. The CS1501 is designed to address power supplies, such as laptop adapters, digital TVs and PC power, while the CS1601 targets lighting applications, such as LED and fluorescent electronic lighting ballasts.

PFC is required in many electronic applications around the world, as global regulations are driving to improve overall efficiency of the utility grid. Traditional analog PFC controllers are nearing the end of their capabilities to meet increasingly strict global regulatory requirements and standards, and new digital solutions enable continued performance and feature improvements designed to meet future market demands.

Featuring Cirrus Logic's EXL Core™ architecture, with its 70 patented and patent-pending digital algorithm technologies in power management and energy control, the CS1501 and CS1601 provide an inherent advantage over legacy analog products by intelligently solving increasingly complex system level challenges that face power supply designers today. Through its patent-pending digital noise shaping technology, both the CS1501 and CS1601 offer best-in-class THD, power factor and efficiency across all load conditions, while also reducing the size and number of required external components. The CS1501/CS1601 also offer an industry standard pinout to ensure an easy upgrade path from legacy analog solutions.

"Cirrus Logic continues to invest and expand our portfolio of digital technologies and products for the lighting and power supply markets," said David Biven, director of Marketing, Cirrus Logic's Energy, Exploration and Lighting Division. "Cirrus Logic is committed to the development of innovative ICs that help our customers create cost-effective, smarter, greener energy products."

For more information on global regulations and power consumption challenges within applications, see the Cirrus Logic white paper: [The Digital Imperative: The Rising Wave in Power Factor Correction \(PFC\) Techniques](#).

Pricing and Availability

The CS1501 and CS1601 are available in an 8-pin SOIC package and are available today priced at \$.52 in quantities of 100,000.

Cirrus Logic, Inc.

Cirrus Logic develops high-precision, analog, digital and mixed-signal integrated circuits for a broad range of innovative customers. Building on its diverse analog, digital and signal-processing patent portfolio, Cirrus Logic delivers highly optimized products for a variety of audio and energy-related applications. The company operates from headquarters in Austin, Texas, with offices in Tucson, Ariz., Europe and Asia. More information about Cirrus Logic is available at www.cirrus.com.

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