



Power Integrations Introduces Reference Design Kit for Multi-class Power-over-Ethernet Powered Devices

Design Kit Reduces Time, Cost of PoE PD Development

SAN JOSE, Calif.--(BUSINESS WIRE)--May 30, 2006--Power Integrations (Nasdaq:POWI), the leader in high-voltage analog integrated circuits for power conversion, today introduced a new reference design kit for Power-over-Ethernet (PoE) Powered Devices (PDs). The rapid growth of the PoE PD market -- expanding at a compounded annual growth rate of almost 36 percent (Venture Development Corporation, June 2005) -- is being driven by the wide adoption of network appliances, wireless LANs and Voice over Internet Protocol (VoIP) telephones. Power Integrations has addressed the needs of this high-growth market by providing a reference design to help speed prototyping and delivery of standards-compliant PoE PDs. The reference design combines a multi-class PoE interface and DC-DC switching circuit built around the company's monolithic DPA-Switch® family of ICs.

"Our new PoE reference design kit offers an excellent solution for reducing time-to-market of PoE PDs," said Andrew Smith, DC-DC product marketing manager for Power Integrations. "The circuit design is fully compliant with the IEEE 802.3af standard for PoE PDs, and early adopters are finding that it offers a highly effective, low-cost solution to jumpstart their network appliance designs."

The reference design kit supports the design of all current classes of PoE PDs (Class 0 to Class 3) and a power range up to 12.95 W. A designer can change the class of a design by replacing a single resistor. The design carries out PoE signature and classification functions, while the integrated DPA-Switch device manages all the primary DC-DC switching and control functions. The complete circuit requires only 16 components and costs about one-third less than designs based on integrated PoE interface/controller ICs.

The PI circuit design was tested by the University of New Hampshire Interoperability Consortium (UNH-IOC) using a comprehensive suite of power sending equipment (PSE), and was shown to meet IEEE 802.3af requirements in all cases. Copies of the UNH-IOC test reports, along with additional information on Power Integrations' PoE offerings and complete information on the DPA-Switch family of ICs, can be found on the Power Integrations website at www.powerint.com/poe.htm.

Available Today

The PoE Class 2 PD Reference Design Kit (DAK-86) is available today from PI and its authorized distributors. Pricing is USD 100. The design kit contains a 3.3 V, 2 A Class 2 power supply, samples of the DPA-Switch family and design software plus a comprehensive engineering report including a circuit description and schematic, test results and transformer design information.

About Power Integrations

Power Integrations, Inc. is the leader in high-voltage analog integrated circuits for power conversion. The company's breakthrough technology enables compact, energy-efficient power supplies in a wide range of AC-DC and DC-DC applications. The company's EcoSmart® energy-efficiency technology, which dramatically reduces energy waste, has saved consumers and businesses around the world more than an estimated USD 1.6 billion on their electricity bills since its introduction in 1998. For more information, visit the Power Integrations website at www.powerint.com.

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