Power Integrations Expands DC-DC Converter IC Family To Enable Low-Profile Designs for PoE and PoE-Plus

Lead-Free S-PAK Package Reduces Both Footprint and Height in Space-Constrained Designs

SAN JOSE, Calif. – July 18, 2005 – Power Integrations (Nasdaq: POWI), the leader in high-voltage integrated circuits for power conversion, announced today the expansion of its *DPA-Switch*® family of integrated circuits, introducing a low-profile option for the Power over Ethernet (PoE) market and other high-voltage DC-DC applications. The new ultra-low-profile S-PAK package gives a footprint saving of 40% and a height reduction of 55% compared to the existing TO-263 package, while offering equivalent thermal impedance.

PoE enables the delivery of power to networked devices such as IP phones, wireless access points and security cameras, eliminating the need for an AC power connection. Typically delivered at 48 volts, PoE power must be converted to a lower voltage inside the client device. By integrating most of the complex aspects of DC-DC power conversion onto a monolithic chip, *DPA-Switch* ICs enable PoE converters with lower component count, smaller board footprint and shorter design cycles compared to discrete designs and competing IC-based solutions. It is also the only solution scaleable for applications ranging up to 100 watts, allowing substitution of different *DPA-Switch* parts to address all current PoE classes (Classes 0 to 3), as well as future, higher-power PoE-Plus standards.

Supplied with a 100% matte tin finish, the new S-PAK (JEDEC MO-169) package, which is designated by the letter S in the part number, is lead-free, RoHS compliant and meets J-STD-020C 260 ºC solder reflow requirements. In addition to the S-PAK, *DPA-Switch* devices are available in DIP-8, SMD-8 and six-lead TO-263 versions.

"Whenever a new technology requires both infrastructure and client devices in order to grow, a chicken-and-egg problem develops as the owners of each end try to ratchet up their installation with minimal waste," noted Doug Bailey, vice president of marketing for Power Integrations. " The PoE market has now broken through that barrier. Around 50 million enterprise ports are enabled with PoE today, with an estimated 200 million expected to be shipping annually by 2007. Since each port represents a potential socket for an Ethernet-powered device, the client side of the market is ready for very rapid expansion."

All four members of the *DPA-Switch* family are available in the new S-PAK. DPA423SN, for applications with maximum power output of 18 watts, is optimized for Class 1 and Class 2 PoE applications, while DPA424SN (35 W maximum power) is optimized for Class 0 and Class 3 applications. With maximum outputs of 70 W and 100 W respectively, DPA425SN and DPA426SN are positioned to support future IEEE802.3af expansion for PoE-Plus high-power classes targeted at devices such as notebook computers.

The most highly integrated high-voltage DC-DC converter IC available today, *DPA-Switch* features an internal 220 V MOSFET as well as voltage-mode control, cycle-by-cycle current limit, output overload protection and auto-restart. Other features include remote on/off control, cycle skipping at light loads, low EMI, hysteretic thermal shutdown and fully integrated soft-start.

Design support tools, including reference designs, are available for the *DPA-Switch* family on the company's Web site at *www.powerint.com/dpaproduct.htm*. Additional information on Power over Ethernet is also available at *www.powerint.com/poe.htm*.

Pricing for the new products in 1,000-piece quantities ranges from $1.36 each for the DPA423SN, an 18 W part, to $2.66 for the 100 W rated DPA426SN. Production quantities are available 8 weeks ARO.

About Power Integrations
Power Integrations, Inc. is the leading supplier of high-voltage analog integrated circuits used in power conversion. The company's breakthrough integrated-circuit technology enables compact, energy-efficient power supplies in a wide range of electronic products, in both 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 $1 billion on their electricity bills since its introduction in 1998. For more information, visit the company's Web site at www.powerint.com. For information on global energy-efficiency standards and *EcoSmart* solutions, visit the Power Integrations Green Room at

www.powerint.com/greenroom.