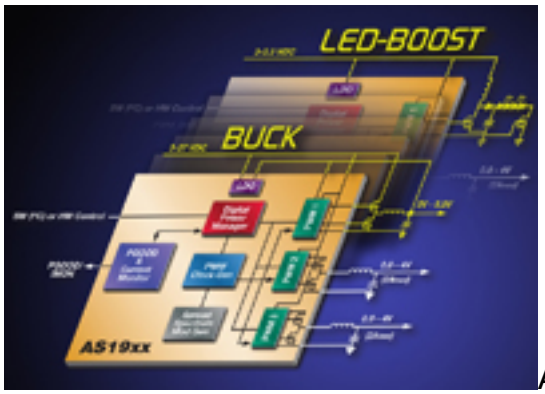
Digital PMUs with Multi-rail DC-DC Offer 94 Percent Peak Efficiency



Akros Silicon Inc. announced the Energy$ense family of multi-output, digital DC/DC power management unit (DPMU) ICs. Technology features include real-time power measurements and power-subsystem health monitoring, high efficiency (94 percent peak) and ultra-low standby current (<10 uA), digital power control (via I2C) for selectable power operating modes, fast transient-handling capability for implementing adaptive power profiles, built-in spread-spectrum clocking for EMI management, and built-in sophisticated PWM-dimming for battery-draining LED-backlight displays. The 10 devices in the new AS19xx Series come in different combinations of synchronous buck, boost and LED-drive converter configurations. With unique feature sets to facilitate simple implementation of real-time and adaptive energy management schemas, the AS19xx series is appropriate for a wide range of applications including 4G LTE residential gateways and femtocells, tablets and large display-oriented consumer devices, ultra-books, e-books, digital photo frames, NAS and media hubs, Internet-TV and IPTV set-top boxes, automotive infotainment systems, solid-state lighting, communication equipment with cluster-power or intermediate bus architectures, and others.

The AS19xx Series consists of 10 triple- and dual-output power-managers that come in combinations of two synchronous buck regulators and a choice of a buck-boost or LED-boost controller. Devices come in either hardware-only mode or hardware and software (I2C) mode configuration. The software-mode devices provide access to advance power management features such as input power measurements, software-driven LED-dimming and daisy chaining.

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