Power Modules Address Power Supply Challenges



Intersil Corporation announced the ISL8204M and ISL8206M, the newest members of its family of compact power modules. The ISL8204M and ISL8206M are complete switch-mode power supplies in a single compact surface-mount package. Included within the module is a PWM controller, power MOSFETs, power inductor and associated discrete components. These products are footprint compatible with the company's ISL8201M to allow designers to fix their point-of-load (POL) power requirements much later in the design cycle and optimize system power needs without having to re-layout the PCB. This family of new modules is appropriate for computing, telecommunications and networking infrastructure, and industrial products. The ISL8204/06/01M's compact 15mm x 15mm x 3.5 mm package consumes very little PCB area. With the thermally enhanced QFN package, heat is dissipated through the bottom of the package, which frequently eliminates the need for a bulky heat sink or cooling fan. The ISL8204/06M operate at up to 95 percent efficiency with a wide input voltage range of 1 V to 20 V. A single resistor sets VOUT from 0.6 V to 6 with +/- 1 percent accuracy. All three modules also feature overcurrent protection, internal soft start with pre-biased output start-up and fast transient response.

Intersil Corporation

888-468-3774, <u>www.intersil.com</u> [1]

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