

Dual-Edge PWM Controller

ON Semiconductor announces the development of working silicon for its new dual-edge pulse width modulation (PWM) controller. The company's DC/DC switching controller specifically addresses 'active power' applications with highly regulated, low voltage power supplies that require high conversion efficiency to meet stringent VR11 specifications. The company's dual-edge PWM technique will enable the power management subsystem to respond to users' activation of high-performance computing functions. By enabling simultaneous switching of all phases in a multiphase power waveform, this PWM controller provides faster response compared to the industry's standard single-edge control. This improved response enables the power management subsystem to operate at a lower frequency and with fewer hold-up capacitors, versus existing leading-edge or trailing-edge approaches. Applications include Pentium IV processors; VRM modules; graphics cards; and low voltage, high current power supplies.

ON Semiconductor

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