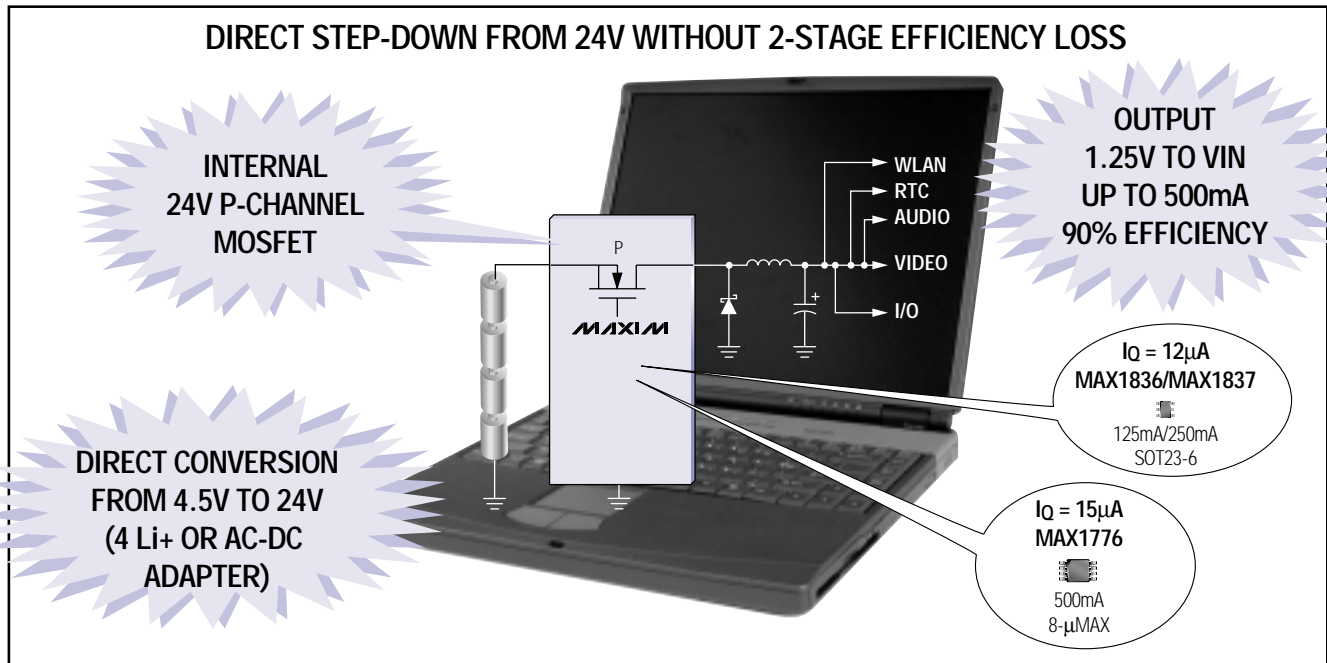


# SMALLEST STEP-DOWN CONVERTER WITH 24V INTERNAL MOSFET SWITCH

## 3-/4-Cell Li+ Powered Low IQ, Keep Alive, and Wake-On-LAN Supply

The MAX1776 delivers up to 500mA, the MAX1836 delivers up to 125mA, and the MAX1837 delivers up to 250mA, permitting optimal inductor selection. The MAX1836/1837 come in a 6-pin SOT23 package, and the MAX1776 comes in a 8-pin  $\mu$ MAX package. Both convert directly from 24V inputs, eliminating the intermediate step-down voltage that wastes over 15% of the battery life and increases complexity. Applications include I/O, audio, keep alive, WLAN, and video supplies in notebook and handheld systems powered by up to 4 Li+ batteries and AC/DC adapters.



Direct conversion from 24V to 3.3V saves 15% power by eliminating compound efficiency losses generated when converting from 24V to 5V and then from 5V to 3.3V.

- ◆ Internal 24V P-Channel MOSFET
- ◆ MAX1776: 8-Pin  $\mu$ MAX Package
- ◆ MAX1836/1837: Small 6-Pin SOT23 Package
- ◆ 90% Efficiency
- ◆ MAX1776: 15 $\mu$ A Quiescent Supply Current
- ◆ MAX1836/1837: 12 $\mu$ A Quiescent Supply Current
- ◆ 3 $\mu$ A Logic-Controlled Shutdown
- ◆ Current-Limiting and Over-Temperature Protection
- ◆ Evaluation Kit to Speed Designs



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