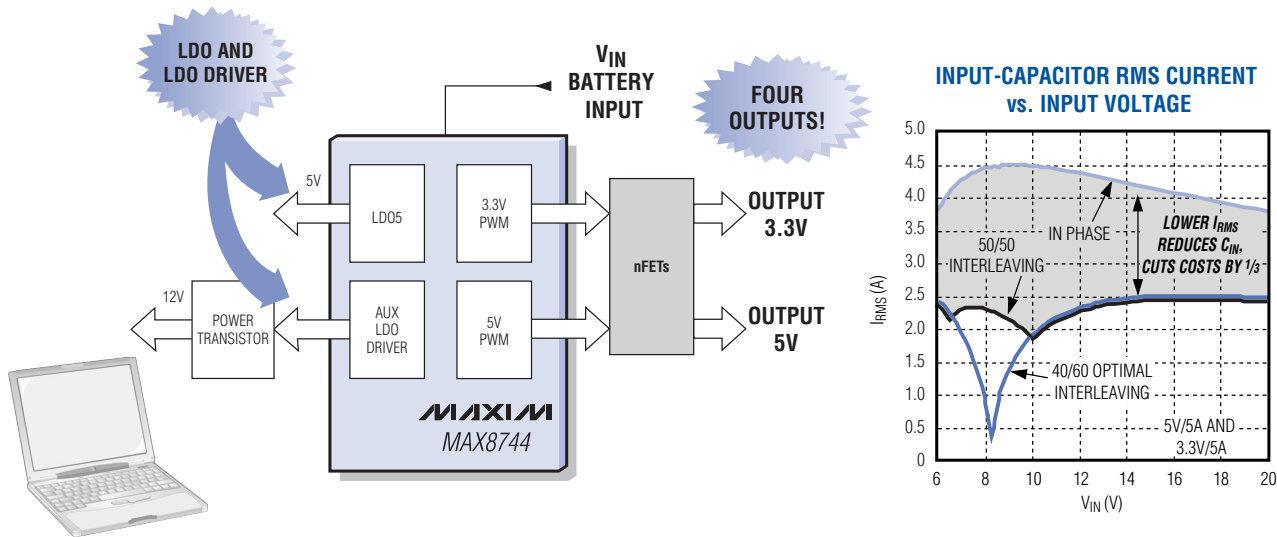


SIMPLE, LOW-COST, FOUR-OUTPUT MAIN-POWER CONTROLLER FOR NOTEBOOKS

Optimal Interleaving Minimizes Input-Capacitance Requirements

The MAX8744 integrates two switch-mode regulators, one bootstrapped linear regulator, and one external switch linear regulator controller to allow simple, compact designs. Optimal (40/60) interleaving in the MAX8744's two fixed-frequency controllers minimizes input ripple current and input capacitor requirements. Integrated boost diodes, Dual Mode™ mode feedback, and simplified logic controls result in a low-cost application circuit with very few external components.



- ◆ Integrated Boost Diodes Minimize External Components
- ◆ Internal Bootstrapped, 5V Linear Regulator with 100mA Load Capability
- ◆ 40/60 Interleaving Reduces Number of Input Capacitors
- ◆ Accurate Differential Current-Sense Inputs
- ◆ Auxiliary 12V or Adjustable 150mA External Switch Linear Regulator with Scalable Current
- ◆ Dual Mode Feedback—5V/3.3V Fixed or Adjustable Output Voltages
- ◆ 200kHz/300kHz/500kHz Switching Frequency

Part	No. of Outputs	Fixed LDO (100mA)	Aux LDO (150mA)	Package (mm x mm)	Price† (\$)
MAX8744	4	5V	12V or adj	32-TQFN (5 x 5)	4.55
MAX1537	5	3.3V/5V	12V or adj	36-TQFN (6 x 6)	5.20
MAX1533	5	3.3V/5V	n/a	32-TQFN (5 x 5)	5.10

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†2.5k piece price provided is for design guidance and is FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.



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