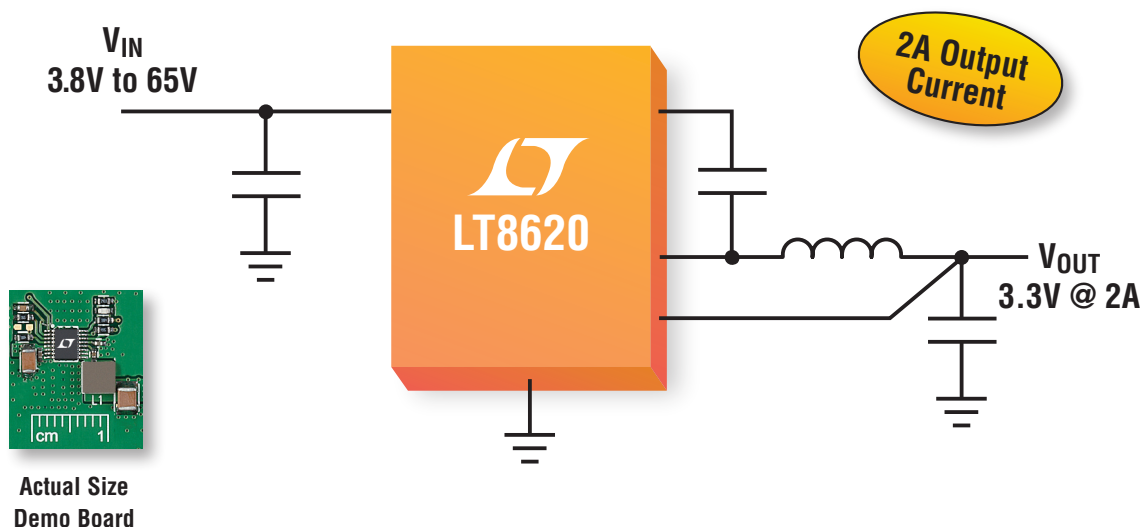


65V, 2MHz Sync Buck



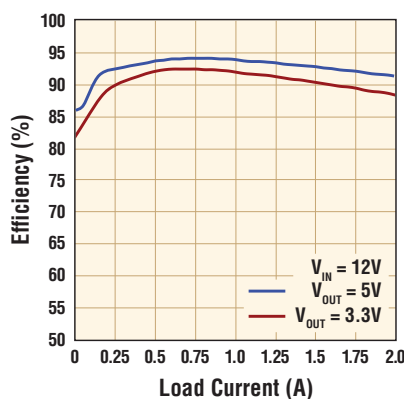
250mV Dropout, 2.5 μ A I_Q and 94% Efficient

The LT[®]8620 brings a new level of performance to 65V input monolithic synchronous buck converters, providing a single device for either single or double vehicle battery systems. Burst Mode[®] operation requires only 2.5 μ A of quiescent current, extending battery life in battery-powered systems. The LT8620 features very low dropout operation of only 250mV at 1A, making it ideal for stop/start systems. For high step-down ratio applications, the LT8620 can buck from 16V down to 1.8V at a switching frequency of 2MHz, ensuring a small and compact solution footprint.

Features

- Input Voltage Range: 3.4V to 65V
- Low Dropout Under All Conditions: 250mV@1A
- Ultralow Quiescent Current: 2.5 μ A
- Low Output Ripple: <10mV_{P-P}
- Fast 30ns Minimum Switch-On Time
- Safely Tolerates Inductor Saturation in Overload
- Small Thermally Enhanced 16-Lead MSOP and 24-Lead 3mm x 5mm QFN Packages

Efficiency vs Load Current



Info & Free Samples

www.linear.com/product/LT86XX

1-800-4-LINEAR

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