

40V USB Type-C Power Delivery Buck-Boost Controller

FEATURES

- Single Output Supports 1 Type-C Port Up to **100W**
- Wide Input Range: 4V to 40V
- Synchronous Switching: Up to 98% Efficiency
- $\pm 1.5\%$ Output Voltage Regulation
- Proprietary **Low EMI** Buck-Boost Architecture
- Adjustable Switching Frequency with External Synchronization and Spread Spectrum
- Overcurrent, Overvoltage, Short-Circuit Protection
- 28-Lead Side Solderable QFN Package
- **AEC-Q100** Qualification in Progress

DESCRIPTION

The **LT[®]8253/LT8253A** are synchronous 4-switch buck boost controllers optimized for automotive USB-C power delivery. The LT8253/LT8253A are fully compliant to the USB power delivery (PD) specification when used in conjunction with a USB Type-C or PD port controller. The output voltage slew rate can be controlled through the FB pin. The LT8253 can deliver up to 100W output power with 98% peak efficiency when running below the AM band. The LT8253A can deliver up to 60W output power with 95% peak efficiency when running above the AM band.

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TYPICAL APPLICATION



