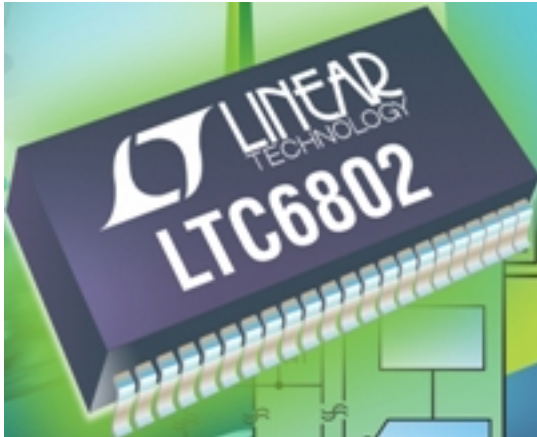


## Battery Monitoring IC Measures 12 Cells



Stacking in series without optocouplers or isolators, Linear Technology's LTC6802 multicell battery monitoring IC has the capability to measure up to 12 individual Lithium-Ion battery cells within 13 ms. The 8 mm × 12 mm 44-lead SSOP-packaged device performs in stack voltages over 1,000 V with <0.25% max. measurement error from -40°C to 85°C and monitoring for undervoltage and overvoltage conditions in each cell. The SMT IC comes with a 1 MHz serial interface for communication, an associated MOSFET switch for cell discharge, temperature sensor inputs, GPIO lines and a precision 3 V voltage reference. The AEC-Q100-compliant component includes diagnostics and fault detection, a delta sigma converter with built-in noise filter, ADC with inherent FIR filtering, and a 5 V regulator while operating from -40°C to 85°C. Applications include electric and hybrid vehicles, backup battery systems, portable equipment and data acquisition systems. Pricing is \$9.95 each in 1,000 quantities.

Linear Technology  
800-454-6327, [www.linear.com](http://www.linear.com) [1]

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### Links:

[1] <http://www.linear.com/>