

## Two-Amp Switching Charger IC Serves Feature-Rich Mobile Devices



Advanced Analogic Technologies Inc.

(AnalogicTech) announced the AAT3620, a fully integrated single-cell Lithium-ion battery charger capable of supplying up to 2 A charge current in a 3 × 3 mm TDFN package. This dual mode produce provides a switching charger during Constant Current (CC) and Constant Voltage (CV) mode. To minimize EMI and RFI emission, the device switches to linear mode during CV mode where power dissipation is at a minimum. The AAT3620 is operates across a 4.3 to 6.0 V input range and performs battery charging using a 1.5 MHz PWM converter. During CC and most of CV mode, the device delivers up to 2 A. When the current dips below 300 mA in CV mode, the device automatically switches to a low noise linear mode minimizing noise, EMI and RFI emission. The AAT3620 also features programmable end of charge using external resistor, built-in reverse blocking, a 1% constant voltage mode regulation and an integrated programmable charging timer. Over-voltage, over-current and over-temperature protection circuits monitor charge state and battery charge temperature for fault conditions. The AAT3620 sells for \$1.60 in 1K quantities.

### Advanced Analogic Technologies

408-737-4600, [www.analogictech.com](http://www.analogictech.com) [1]

### Source URL (retrieved on 01/28/2015 - 7:50am):

<http://www.ecnmag.com/products/2009/02/two-amp-switching-charger-ic-serves-feature-rich-mobile-devices>

### Links:

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