

## Apple 3G iPhone

*Quad-band GSM/Tri-band W-CDMA with EDGE/HSDPA*

Report #11000-080711-BCg

Weight: 134.8 grams measured  
(1.8 grams more than spec)



### Product Description:

Accompanied by media frenzy, the July 2008 release of the Apple 3G iPhone proved to be an event of worldwide significance. Retaining the sleek glass-faced bar form and touchscreen interface of its predecessor, the new iPhone builds on an established platform by doubling available memory and adding functionality. Of particular interest is the addition of W-CDMA/HSDPA capability and Assisted GPS, improvements that propel the 3G iPhone into the "World Phone" arena. Both the 8GB and 16GB models were examined for this report. With the exception of memory capacity, the two are essentially identical. The now-familiar feature set, including orientation-sensitive display, 2.0MP camera, 802.11b/g WiFi, Bluetooth, music and video player, and games, is again integrated into a highly intuitive user environment.

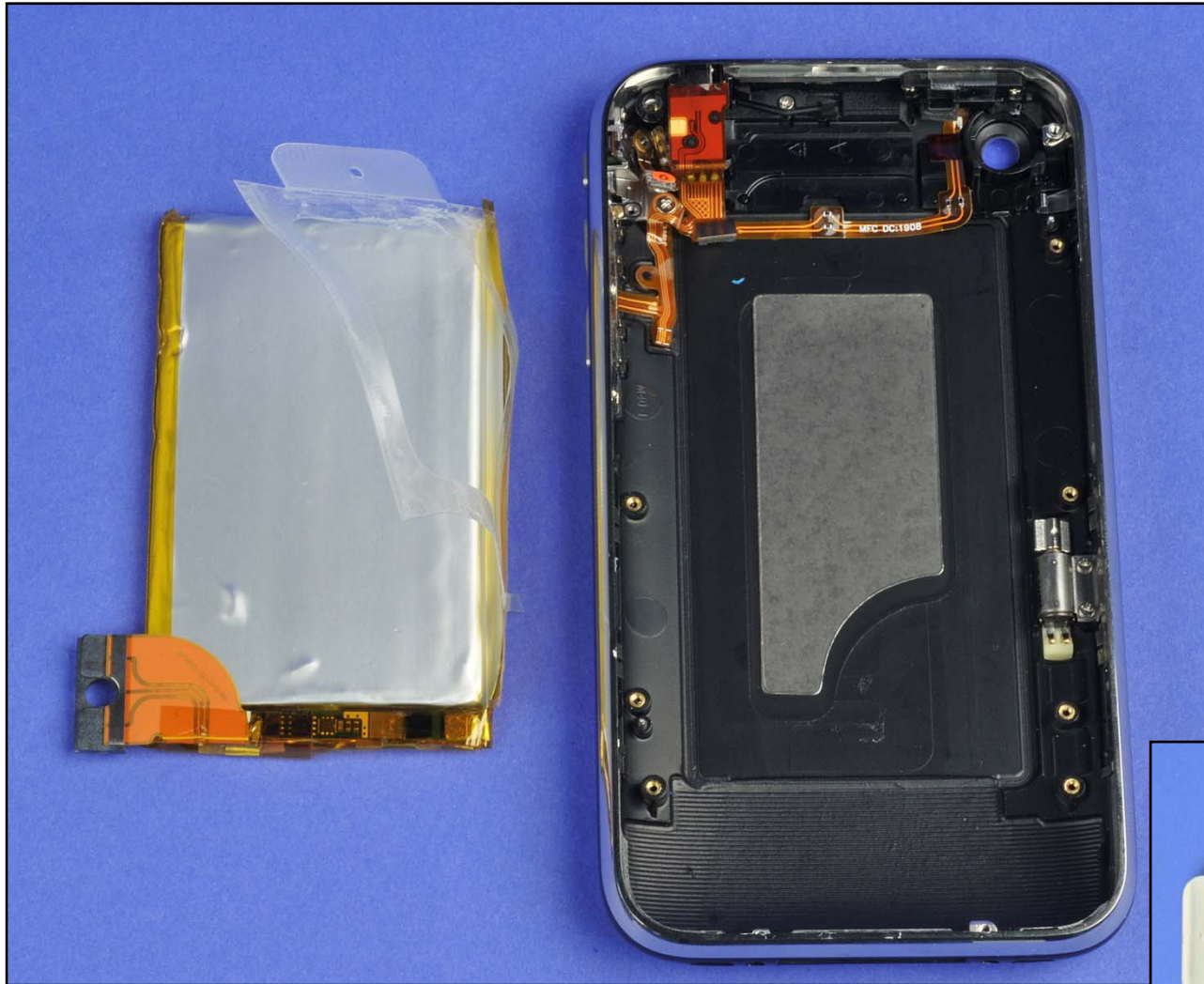
### Report Contents:

- Detailed external & internal photos
- Detailed step-by-step disassembly
- Power measurements
- Block Diagram
- Circuit board & packaging metrics
- Complete parts list & component count
- Manufacturing cost analysis
- Description of most interesting electronic features & packaging concepts

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## Battery Removed



Unlike the soldered-terminal battery of the original 2G iPhone, the 3G model uses a flex pigtail mated to pressure contacts to affect battery connection. The battery assembly is held to the case floor with an adhesive-backed die-cut plastic frame.



Battery found in phone as shown.



Battery found in a second 3G iPhone: Multiple battery vendors were used.

