

PRESS RELEASE

UBM TechInsights does TRUE Teardown analysis of Apple iPhone 4 and discovers many similarities to the recently released iPad

OTTAWA, June 23, 2010 - UBM TechInsights are pleased to announce their recent findings from a full teardown analysis of the newly-released iPhone 4.

The iPhone 4 was the most hotly anticipated mobile handset of 2010 from the minute it was announced by Steve Jobs at Apple's World Wide Developer's Conference (WWDC). Since then, the iPhone 4 has been highly-discussed. Despite leaked photos of the iPhone 4 torn apart in Vietnam or speculation based on the teardowns provided by other groups, UBM TechInsights is the first company to do a full teardown of the latest iPhone and identify ALL the key components that make this a fascinating handset. What's even more interesting is that their findings point to many similarities between this device and [the Apple iPad](#) released in April of this year.

Some of the key similarities include:

- The Intel 36MY1EF dual-memory package featuring 128Mb of Numonyx NOR flash (purchased from Intel and still bearing Intel's markings) and Elpida Mobile DDR SDRAM
- Samsung K9PFG08U5M 256G bit, x8 FLASH memory
- The Cirrus Logic-branded 338S0589 audio codec
- The Broadcom BCM4329 802.11n with Bluetooth 2.1 + EDR and FM receiver
- The Broadcom BCM4750 single-chip GPS receiver
- And of course, the Apple-marked [A4 processor](#), featuring [the same 1 GHz ARM Cortex A8 core as the Samsung Wave](#)

Amongst the other design wins featured on this fourth generation iPhone include three front end modules from Skyworks Solutions (SKY77541, SKY77452, and SKY77459), two components from TriQuint (TQM676091 & TQM666092), a compass sensor from AKM Semiconductor (AKM8975) and a touch screen controller developed by Texas Instruments. Of the major design wins, Infineon found itself with the transceiver win (marked with 'Apple 338S0626') and the X-GOLD 61x (marked '3833') baseband processor. The most notable of parts though was from ST Micro, who provided not only the LIS331DLH 3-axis accelerometer (incorrectly identified as the STM33DH in other reports) but also the 3-axis digital gyroscope, which UBM TechInsights was able to confirm was, in fact, manufactured by ST Micro based on die image capture.

UBM TechInsights also decapped the image sensors on the new iPhone 4 and found a major design win for image sensor manufacturer Omnivision. The VGA sensor on the front camera was determined to be the OV7675 from a match for the VGA-resolution and confirmed by counting pixels! The 5 MP image sensor is also an Omnivision part, and we are confident that this is the OV5650 color CMOS QSXGA image sensor with OmniBSI (backside illumination) technology.

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“By investigating the newest Apple iPhone 4 by using our specialized teardown practices and combining that with our reliable and expert lab analysis, we were able to confirm all the key components on the Apple iPhone 4, especially the much talked about 3-axis gyroscope”, said Steven Bitton, Senior Analyst of the Technical Intelligence Group. “There was plenty of speculation of what was within the iPhone but speculation doesn’t help you make key design decisions or give you a better understanding of the market landscape. Analysis does. Investors should be very happy with our findings today.”

Using the best and latest technical expertise and analysis tools, in combination with years of experience in all aspects of the [IP / Technology Lifecycle](#), to complete the [teardown of the Apple iPhone 4](#) is how UBM TechInsights distinguishes itself from its competitors. Information about UBM TechInsights research on the Apple A4 processor can be found [here](#). For more information about available research on the Apple iPhone 4, please contact [Simone LeClaire](#).

ABOUT UBM TECHINSIGHTS

UBM TechInsights is the preeminent firm for the provision of sophisticated information and advice to technology companies. We assist in the management of their technology and intellectual property portfolios, ensuring the reduction of risk and maximizing return on investment. Our leadership position is founded upon our commitment to the utmost integrity, and sustained by the ongoing investment and acquisition of the knowledge and capabilities necessary to meet our clients’ evolving needs. When companies need assistance in managing their most complex technology or IP challenges, they turn to UBM TechInsights for assured results. For more information about UBM TechInsights, please visit <http://www.ubmtechinsights.com/>.

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