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iFixit > iPhone Disaassembled

2007-06-29 18:44:13

- We've procured our iPhone, and it's on the way to our photo studio now.
- We purchased two 8 GB iPhones.
- The phone has arrived!
- Who wants to take bets on how long it'll take us to start selling iPhone parts?

2007-06-29 18:49:34

- OK, so here's a quick overview of the basics.
  - ✱ The iPhone is 4.5x2.4x0.5", and weighs 4.8 ounces (0.3 pounds). For reference, 18 iPhones weigh the same as 1 MacBook Pro.
  - ✱ The display is 3.5" diagonal, 480x320 resolution. That's 153,600 pixels, or 12% as many as a 15" MacBook Pro.

2007-06-29 18:50:44

- If you can't tell, we're stalling while we figure out how to get it open.
- The iPhone supports four major different wireless protocols.
- The List: Quad-band GSM (850, 900, 1800, 1900 MHz), 802.11b/g WiFi, EDGE, and Bluetooth 2.0 + EDR.

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We take a **first look at the iPhone**.

Free Fixit Guides

Sad Mac? Broken iPod? **Fixit yourself.**

Our free Fixit Guides show you how to repair your machine.

Mac | iPod

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Need parts? We have over a thousand Mac and iPod parts in our store.

- **iPod Batteries from $14.95**
- **iPod Screens starting at $39.95**
- **8x SuperDrives only $119.95**
- **1 GB RAM Chips just $79.95**

Removing antenna cover

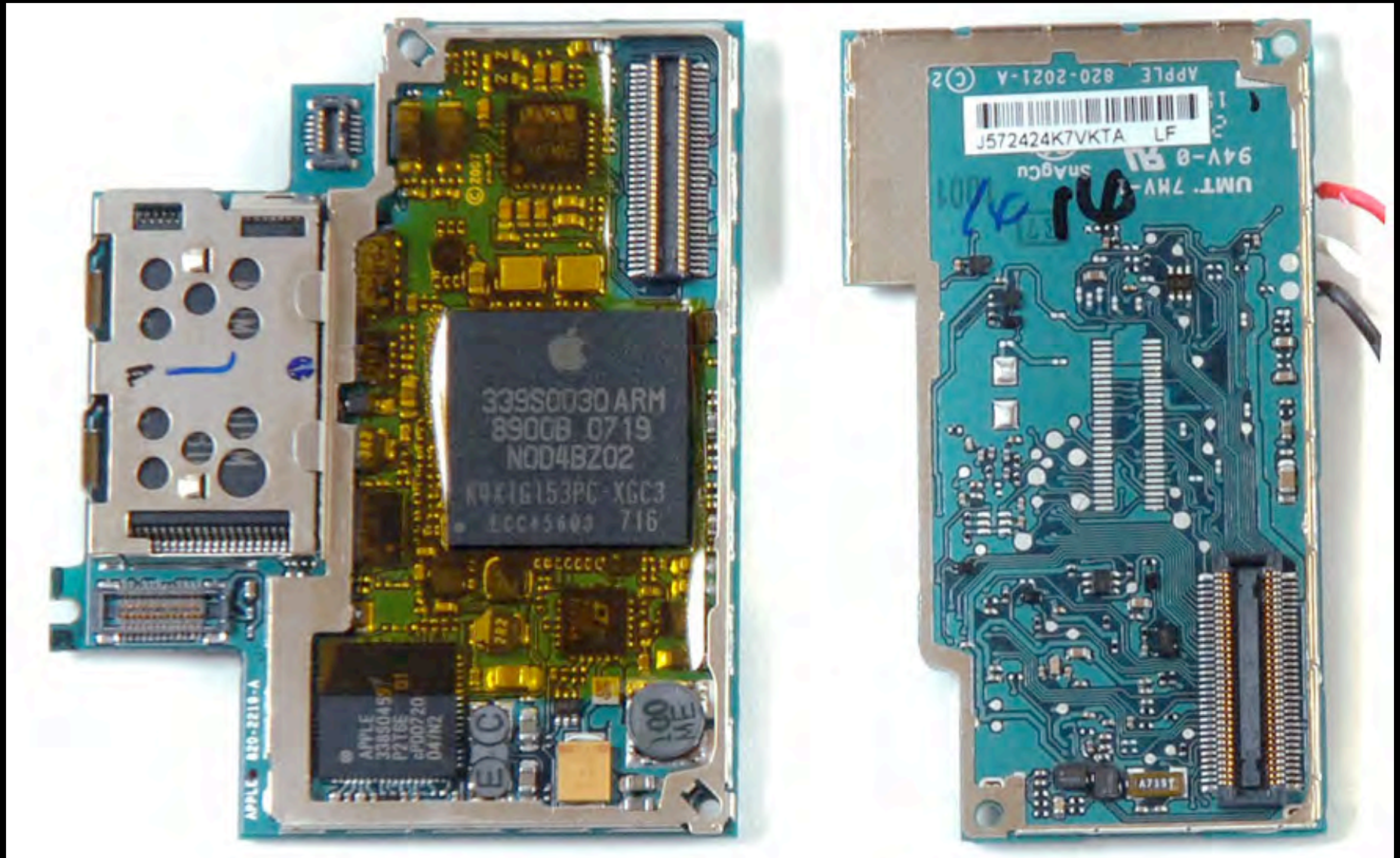Removing back panel

Desoldering battery wires
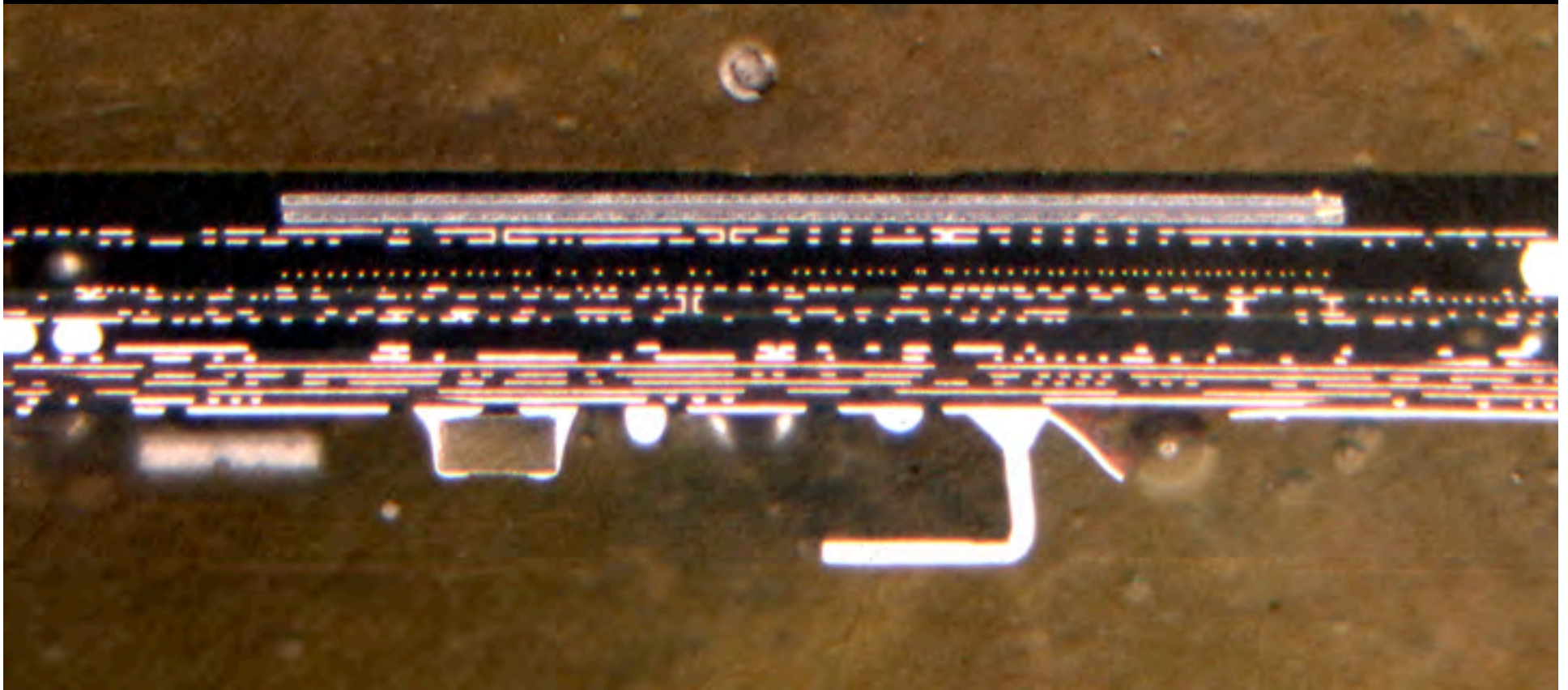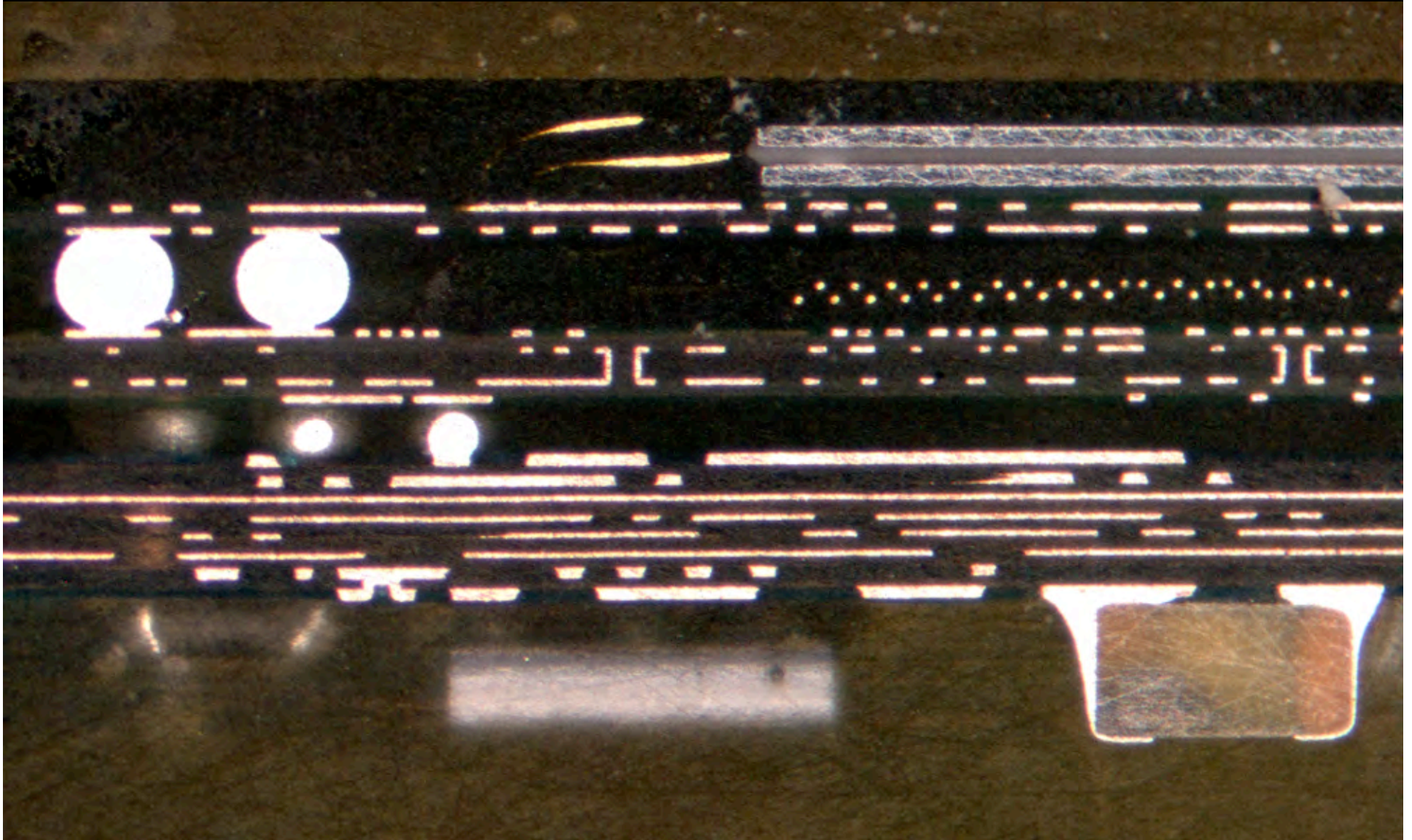
iPhone remnants
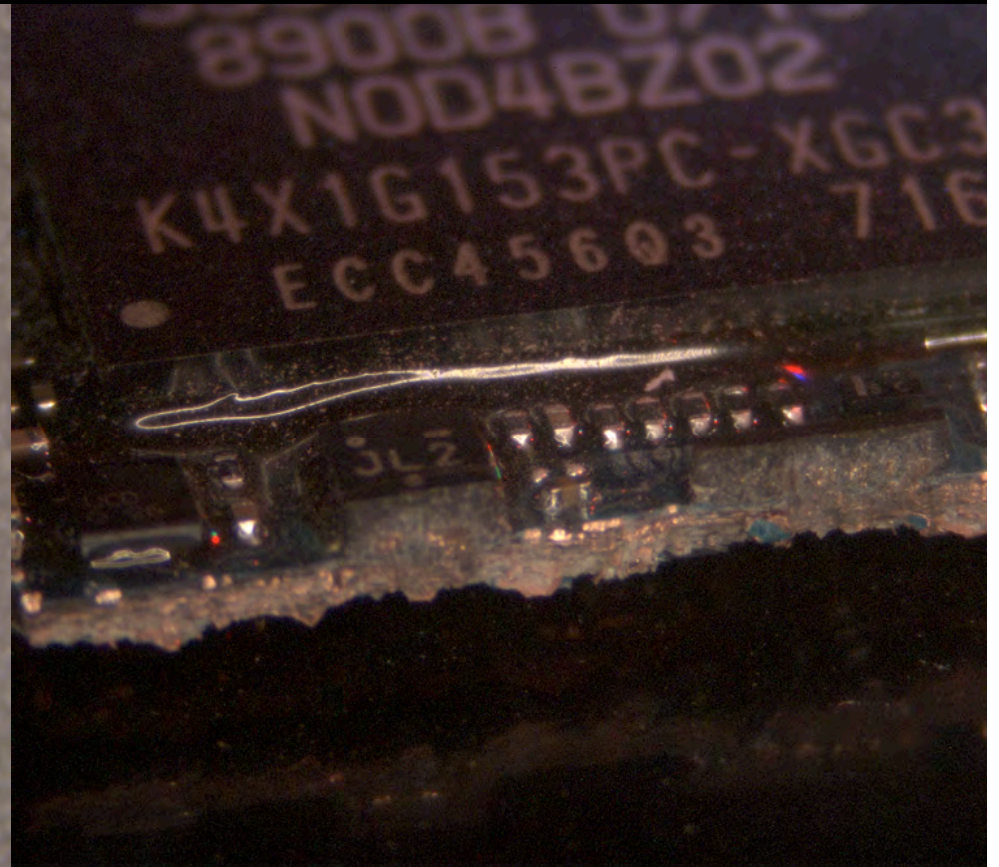
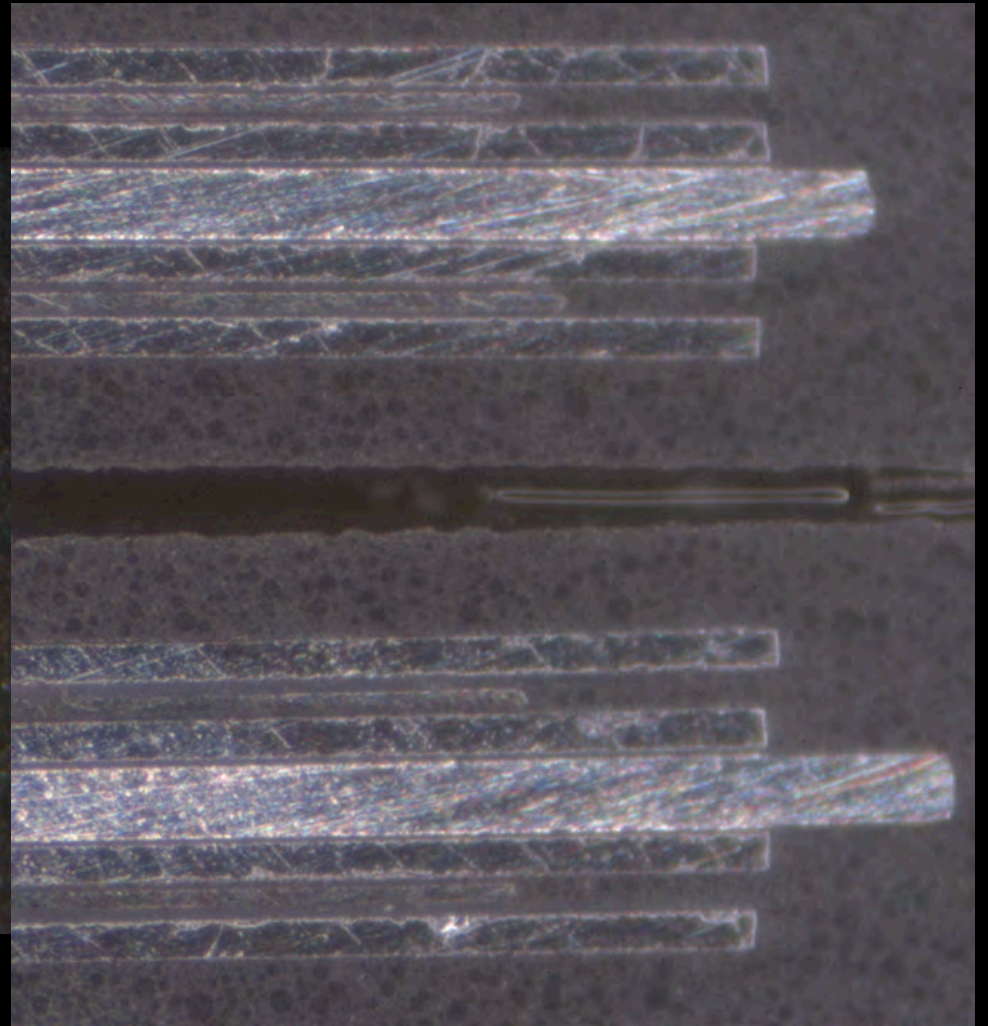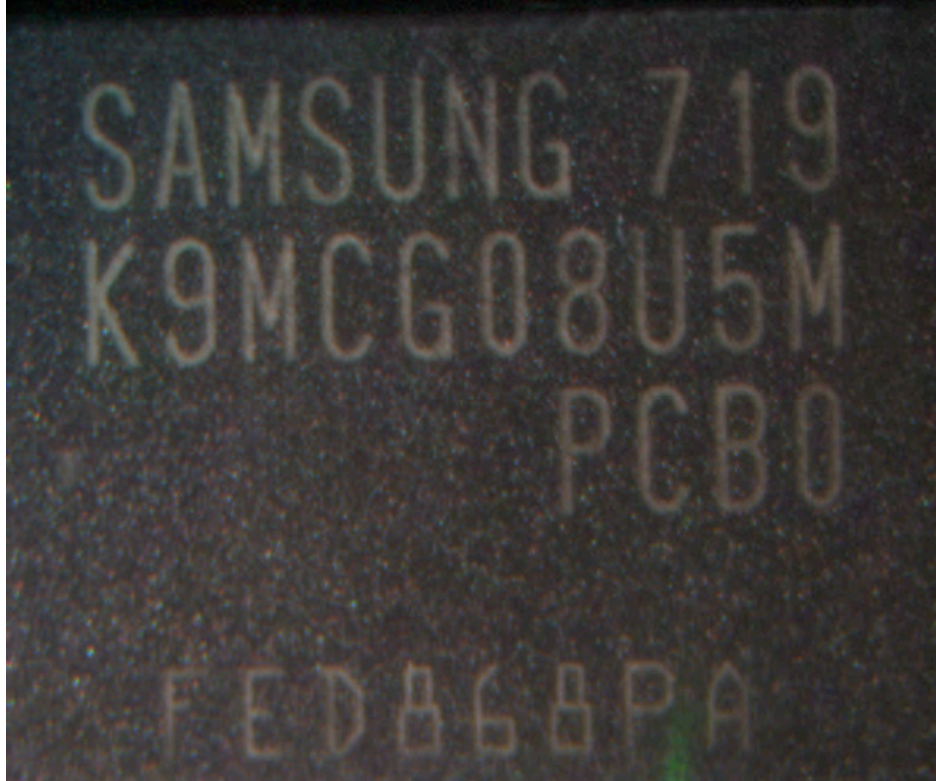Logic Board   Communications Board

iPhone processor stack

iPhone processor stack showing memory leads
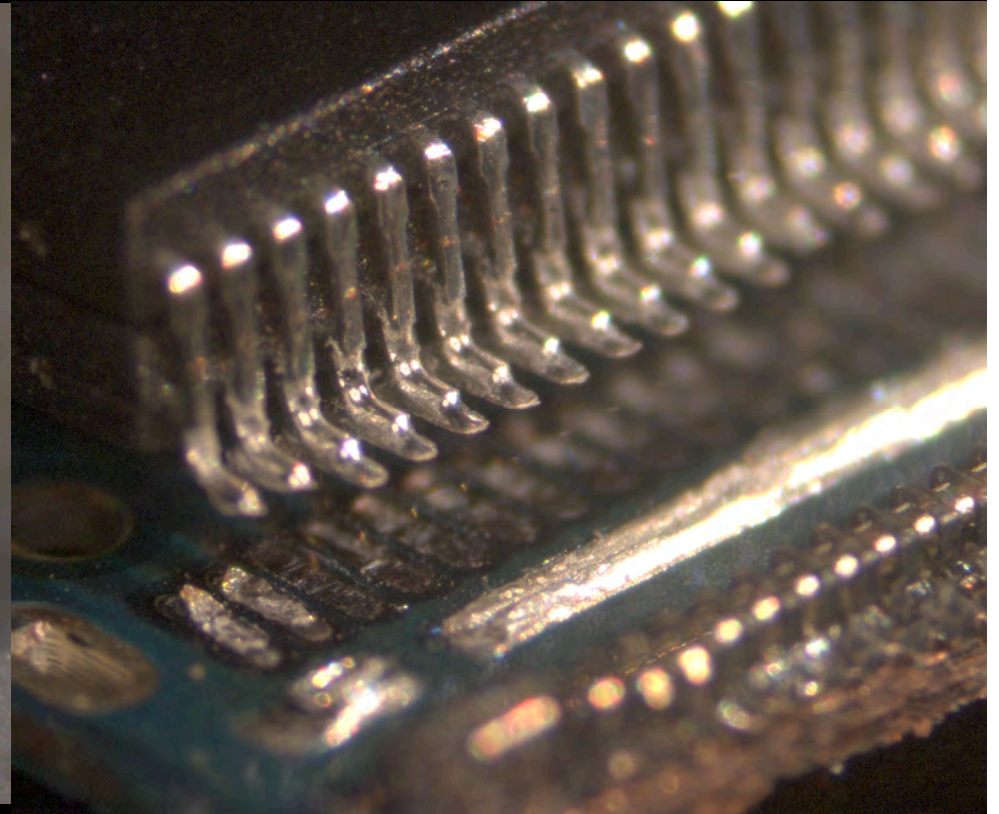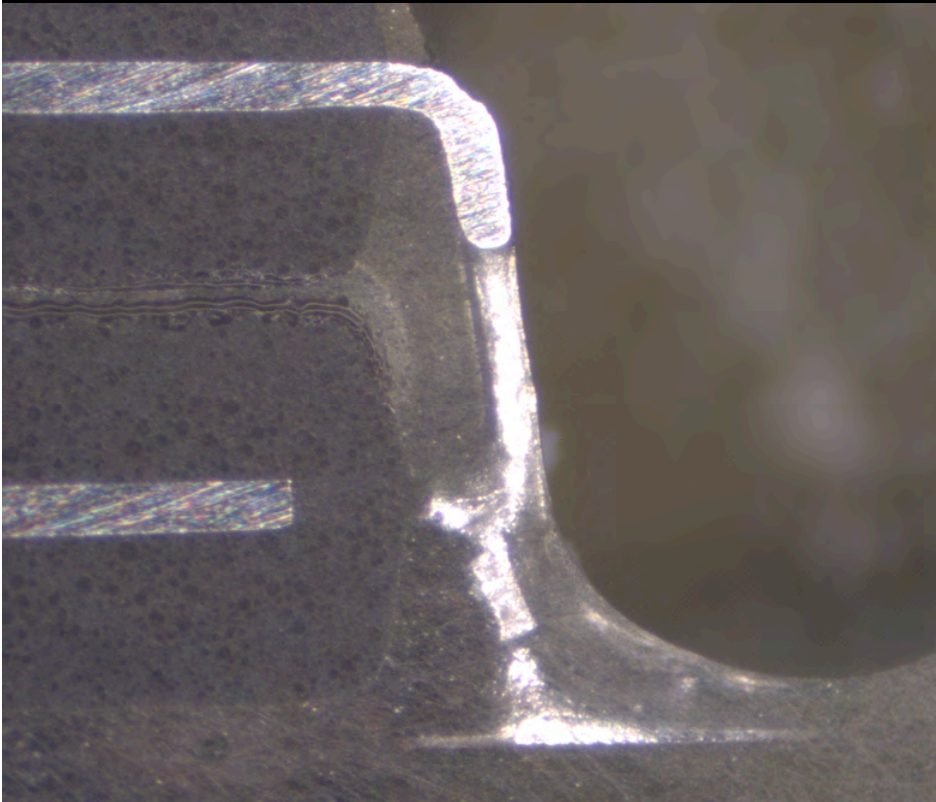
Samsung
iPhone ARM

Glue securing
processor to PCB

iPhone Samsung
NAND Package

Eight stacked 8 Gb Flash
(8 GB total) @ 40x

Flash stacked leads @ 7x

Upper device soldered to lower device
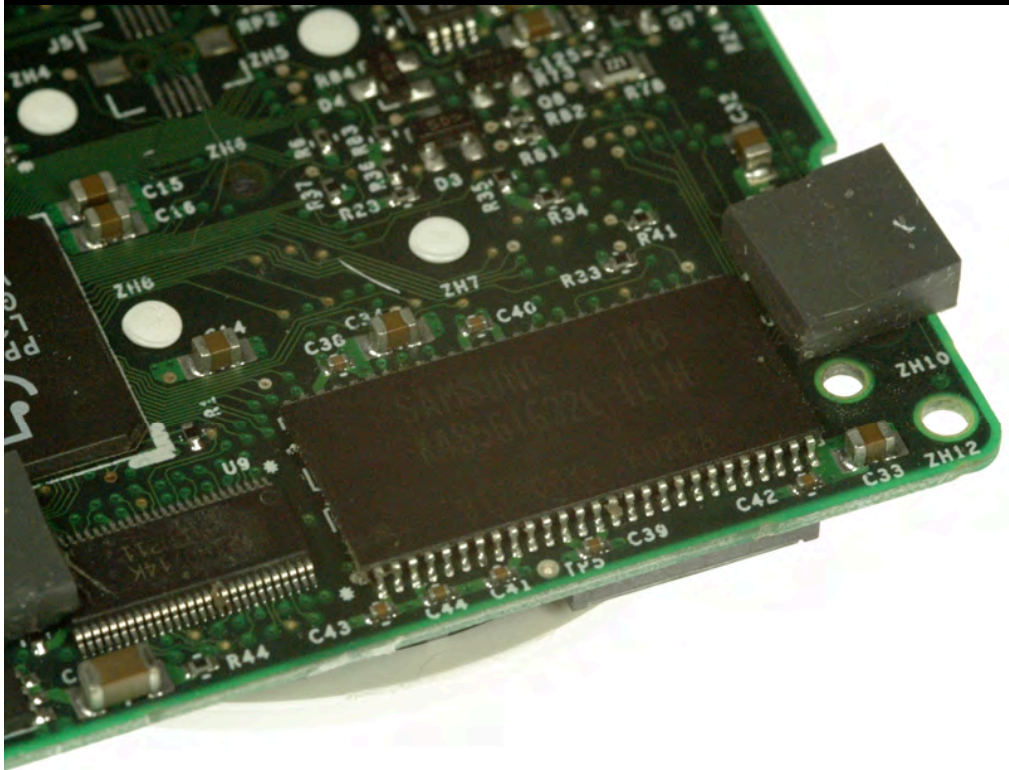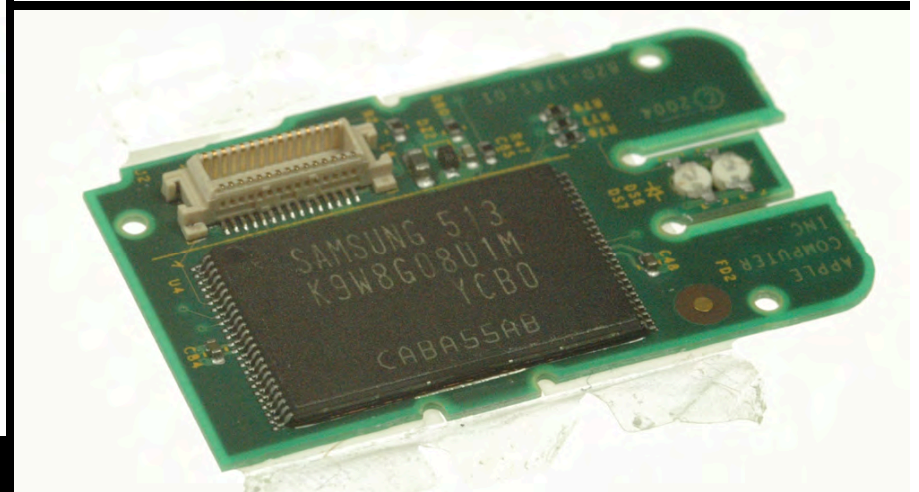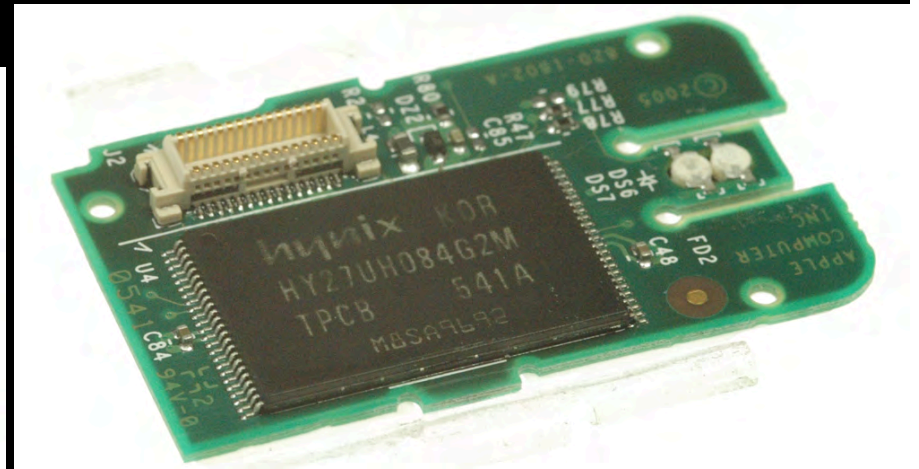
Pulled pads off
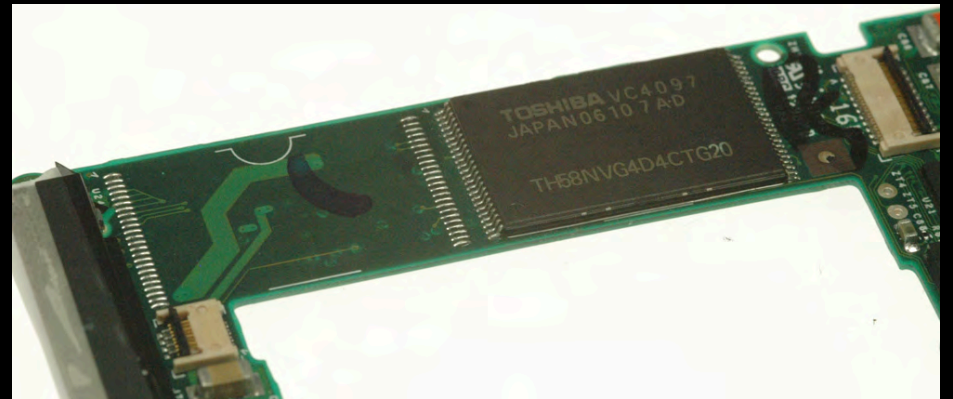flash package

Things have changed:
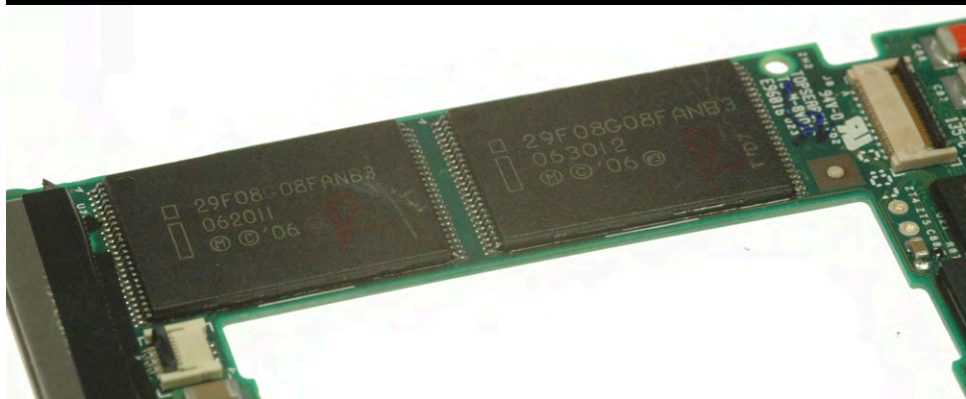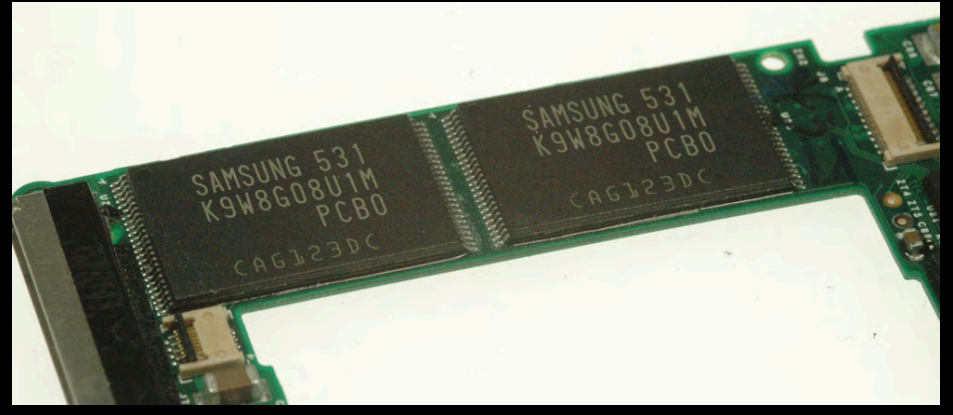
iPod circa 2001

iPod circa 2007

Gen 1 HDD-based iPod

32MB Samsung NOR

Gen 1 Shuffle
above: 512 MB Hynix
below: 1 GB Samsung

Gen 1 iPod Nano 2 GB
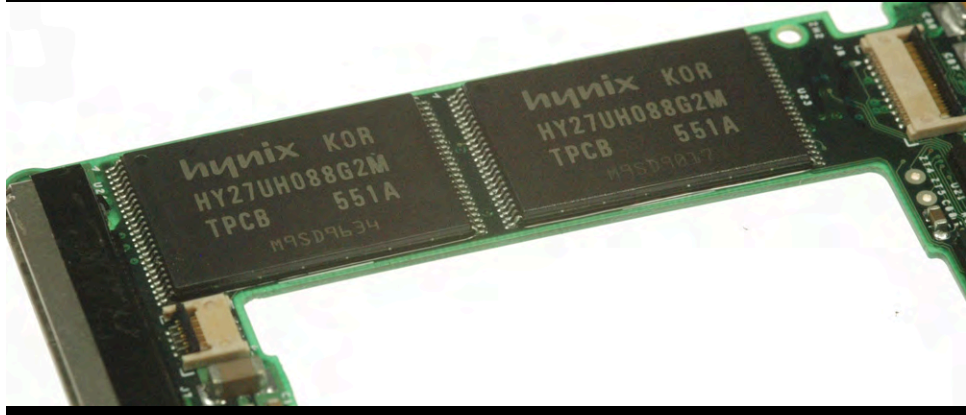
above: Hynix

below: Intel

above: Samsung

below: Toshiba

Gen 2 iPod Nano 8 GB

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Kyle@iFixit.com

8 GB Samsung
NAND
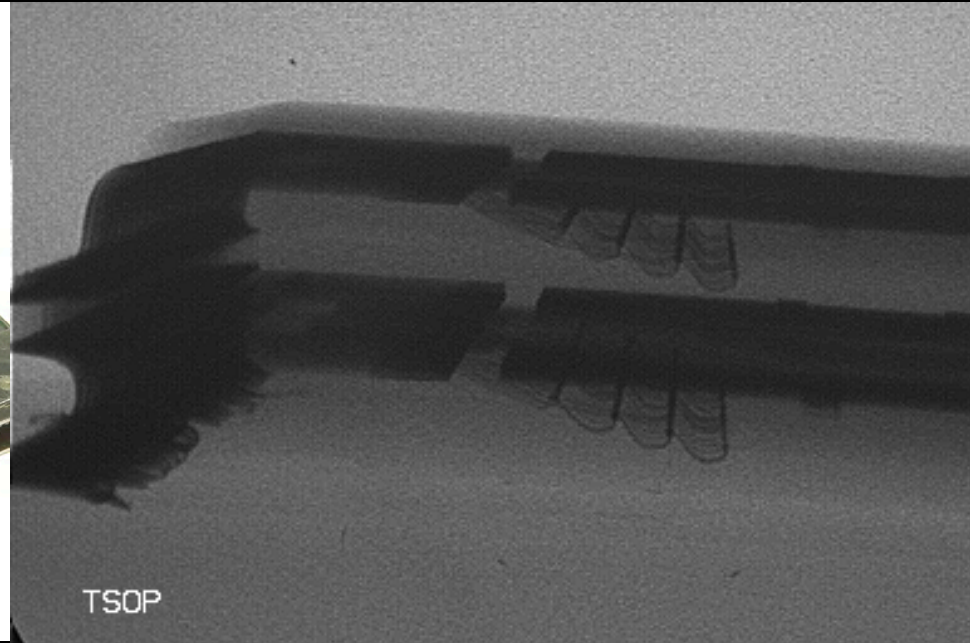
Toshiba 8 GB
Stacked TSOP X-Ray
Terraced Wirebonds

Toshiba Leadframe

Wirebonds to leadframe

Coming soon to an iPod near you:

8-high and beyond
stacked wire-bond

128 GB Compact
Flash format SSD
using VCI stacking

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Kyle@iFixit.com

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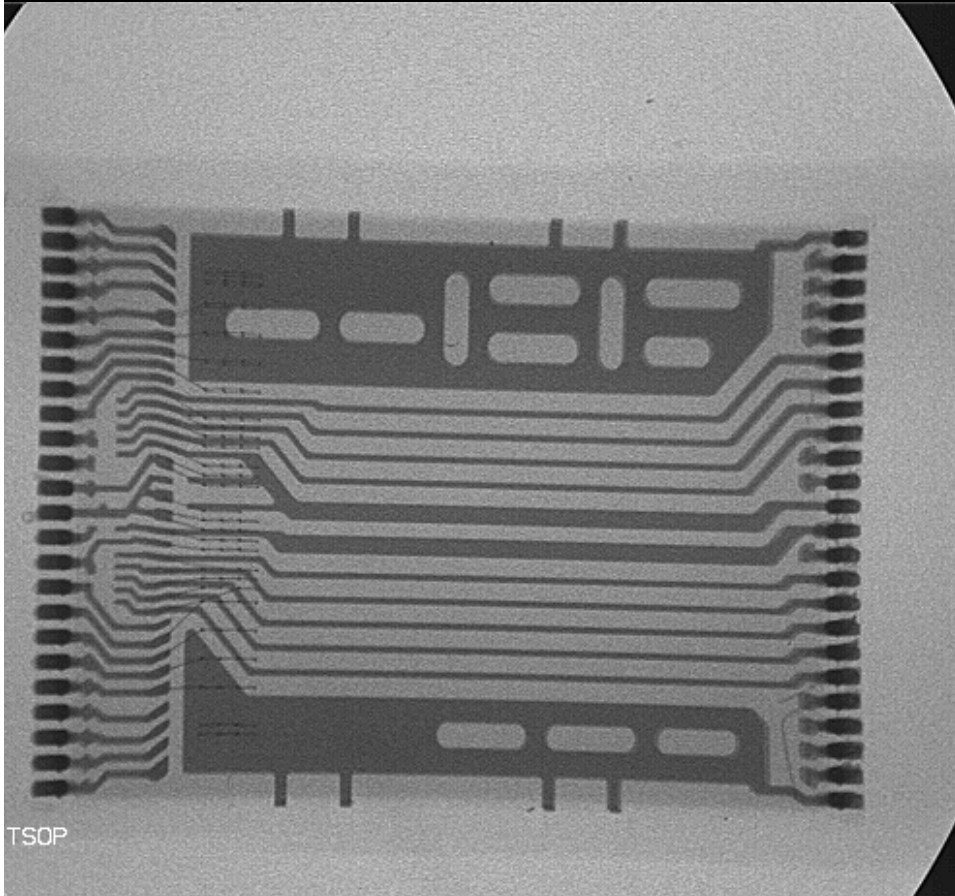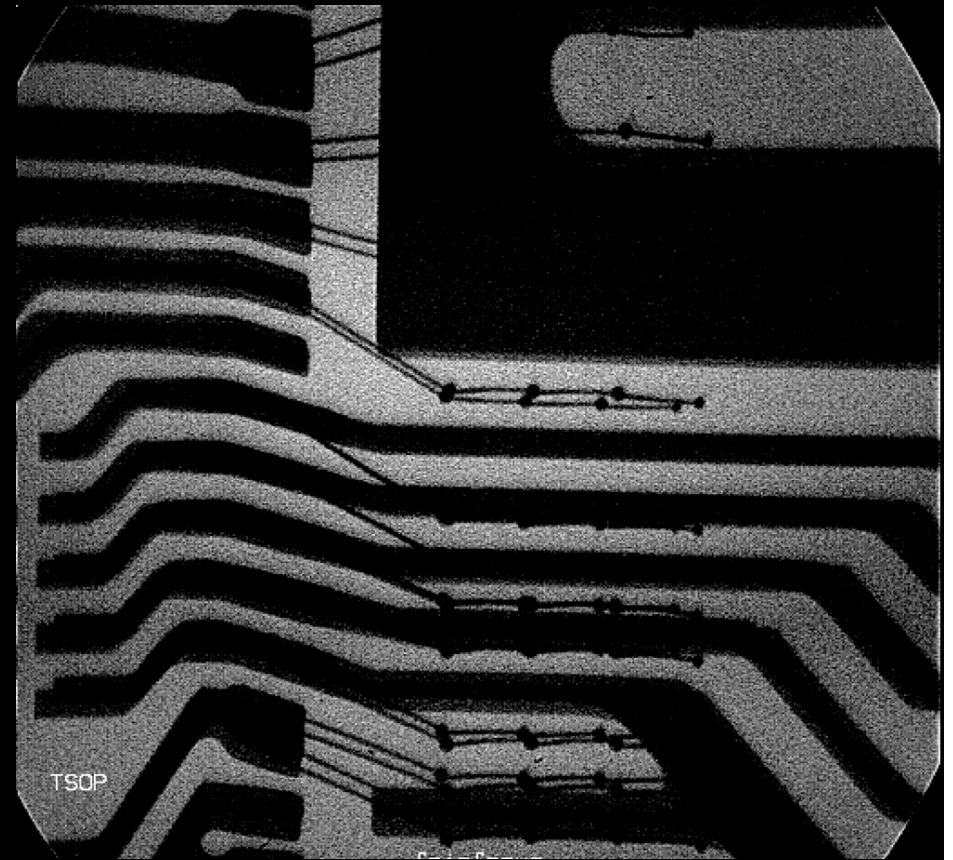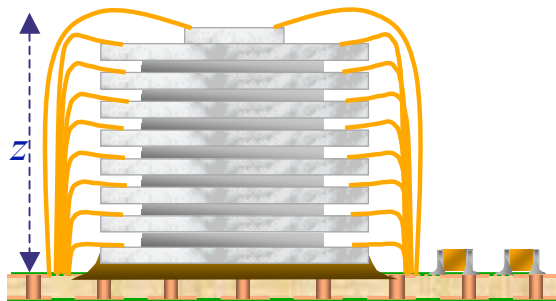
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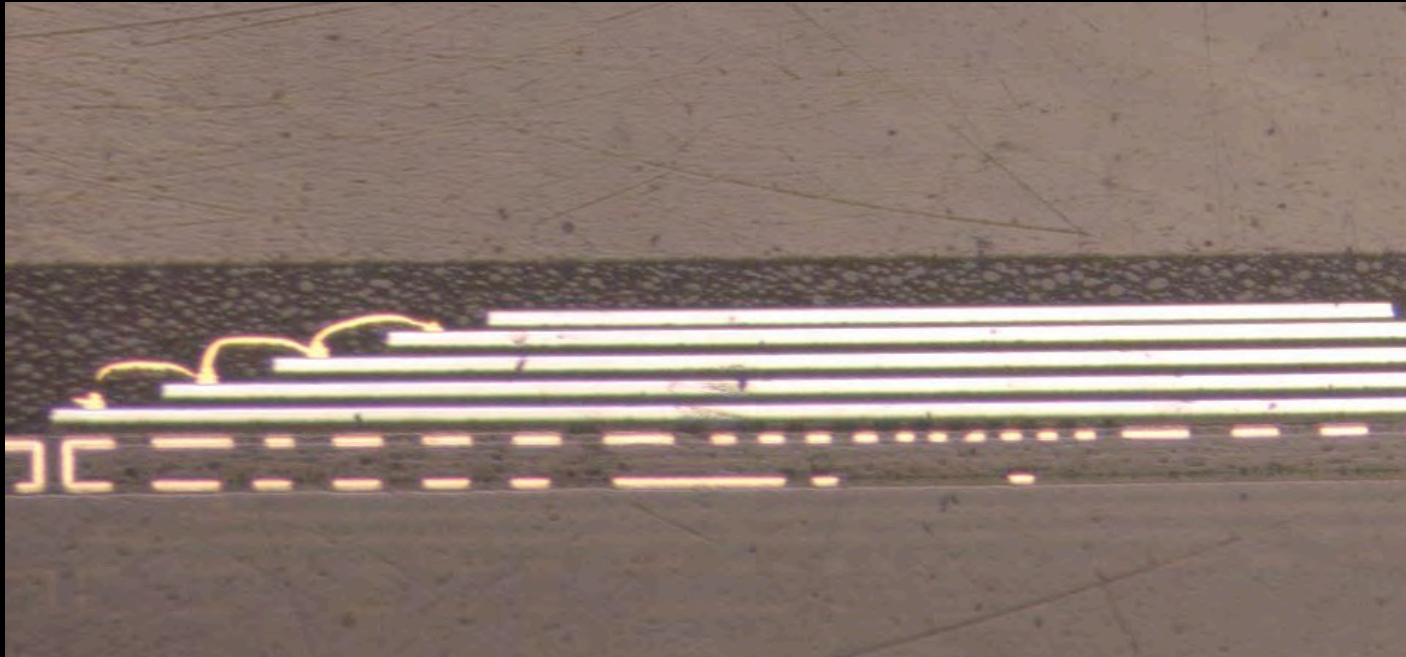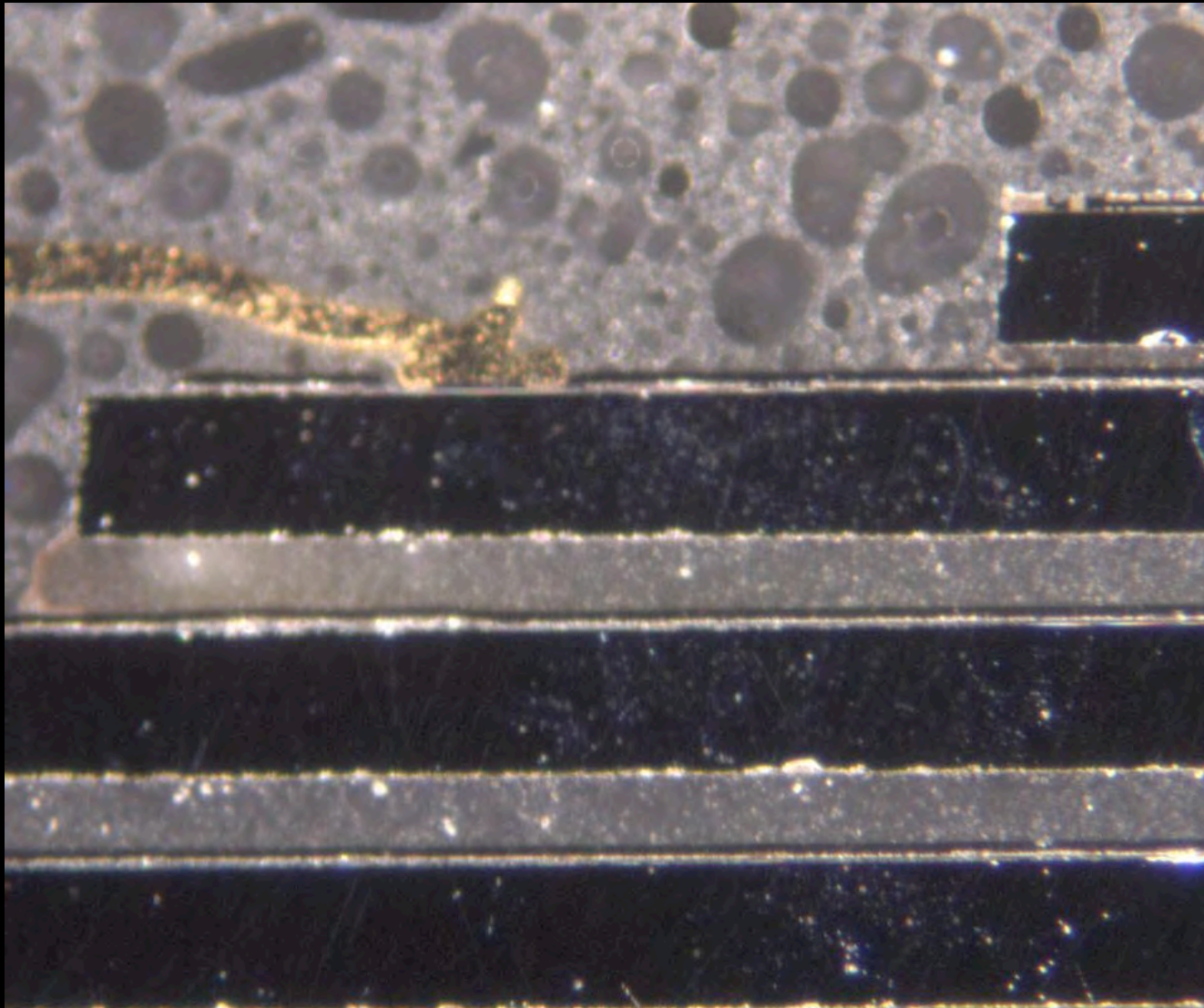
Device markings on flash chip contained within
the Sony MemoryStick Duo memory card

Stacked wirebonds are formed by placing the ball bond upon the stitch bond of the previous wirebond loop.

8 micron bondline
Thickness bet.
Controller and
Top Flash Die

70 micron die
Thickness

20 micron
bondline
thickness
between flash die
in stack

Polyimide Coating

ifixit
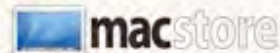## Mac + iPod Parts & Upgrades

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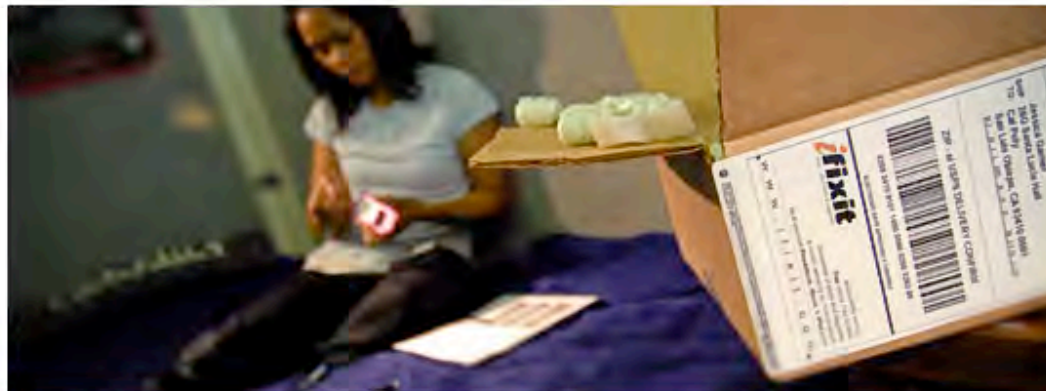
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