

## The Teardown - Motorola Droid Bionic

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**Texas Instruments WL1271 Chip (WLink 6.0)** – The WL1271 chip supports WiFi (802.11 b/g/n), Bluetooth 2.1, FM and GPS technologies. The WLink 6.0 single-chip solutions are manufactured in a 65-nm CMOS process and use TI's DRP technology to deliver low-power, small form-factor and low cost requirements of handset manufacturers worldwide.  
<http://bit.ly/ti-wlink>


**Avago ACPM-7868 Quad-band Power Amplifier** - The ACPM-7868 is a linear quad-band / multi-mode power amplifier module for both QPSK and 8-PSK modulation schemes. The power amplifier is manufactured on an advanced InGaP HBT technology offering state-of-the-art reliability, temperature stability and ruggedness. This module is housed in a cost effective, extremely small and thin 5 x 5 mm package.  
<http://bit.ly/avago-pa>




The central image shows the Motorola Droid Bionic phone and its internal components. The phone is shown in two views: a front view and a back view with the battery cover removed. Below these are two detailed views of the internal PCB, with callouts pointing to specific components. The callouts are: 1. Qualcomm PM8028 Power Management IC (bottom left), 2. Atmel MXT224E-CCU Touchscreen Controller (bottom right), 3. Texas Instruments WL1271 Chip (top left), and 4. Avago ACPM-7868 Quad-band Power Amplifier (top right).

**Qualcomm PM8028 Power Management IC**  
Works in conjunction with the Qualcomm MDM6800 to provide CDMA connectivity. Offers integrated battery management, voltage regulation, and charging functions in a single IC. This IC enables mobile handsets ranging from the value-priced segment of the market to those supporting high-end multimedia and data services, and delivers space efficiency, dramatic reductions in bill-of-materials (BOM) costs, and increased battery life.  
<http://bit.ly/qc-ic>

**Atmel MXT224E-CCU Touchscreen Controller**  
This controller offers seamless multi touch performance for up to ten touches. It is suitable for touchscreens of up to 7" in diagonal, and a range of aspect ratios. It is highly responsive, with report rate of 250Hz and has the industry leading current consumption, as well as reliable operation over a wide range of temperatures.  
<http://bit.ly/atmel-ts>



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