

HTC Magic

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The **HTC Magic** (known as the **T-Mobile myTouch 3G** in the US, and the docomo HT-03A in Japan) is a smartphone designed by HTC. It is the second handset by HTC that uses the Android operating system (the first being the HTC Dream). It was unveiled by Vodafone on 17 February 2009 at the Mobile World Congress in Barcelona,^[1] and went on sale in Spain on 27 April,^[2] in the UK and Taiwan in May 2009,^[3] and in Singapore, Hong Kong and The Netherlands in June 2009.^[4] It will become more widely available to customers Germany (Vodafone), France (SFR), Philippines (SMART Communications), India (Airtel) and non-exclusively in Italy and Sweden, with more countries to follow.^[5]

The device was released in Canada by Rogers Wireless on 2 June 2009.^{[6][7]}

Preorders for the smartphone in the United States through T-Mobile began on July 8, 2009.^[8] T-Mobile officially released on August 5, 2009.^[9] In Russia, there was information that it will be available^[10] via Russian HTC official online store for about 770 USD,^[11] but soon HTC announced that it decided to sell another Android-powered device instead of HTC Magic.^[12]

Vodafone has exclusive rights to sell the HTC Magic in some of the markets they service.

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Software

The HTC Magic runs the Android Operating System and comes pre-installed with a WebKit based browser. Other pre-installed software enable access to various Google services, including Gmail, Google search, Google Maps, Google Talk and YouTube.^[5]

Like the HTC Dream, the Android Market application, which allows users to download new software applications from third-party developers, as well as providing publicly-viewable ratings and comments, is also included with the device.^[13] Indian versions of HTC Magic do not have Google apps and Android Market access.^{[14][15]}

HTC Magic



Manufacturer	HTC
Type	Candybar smartphone
Release date	April 27, 2009 (Spain) May 2009 (Taiwan) June 2, 2009 (Canada) June 2009 (Singapore, Hong Kong, the Netherlands) July 28, 2009 (United States)
Operating system	Android 1.6 (Donut) (1.5 (Cupcake) in Canada)
Power	3.7 V 1340 mAh Internal rechargeable removable lithium-ion battery
CPU	528 MHz Qualcomm MSM7201A ARM11 processor (PV32B) or 528 MHz Qualcomm MSM7200A ARM11 processor (PVT32A)
Storage capacity	Flash memory:512 MB microSD slot: supports up to 16 GB
Memory	192/288 MB RAM 512 MB ROM

There also are several non-official versions of Android released for the Magic, such as the CyanogenMod firmware, which offers enhanced performance and additional features.^[16]

Google Maps

The Google Maps application supports map, satellite, traffic, and street view. Street View uses the accelerometer and digital compass to align the view on the screen with the actual orientation of the phone. It also comes with Google latitude, a location based service that allows friends who also have Google maps to view your locale, add status updates, chat, etc. Google maps has recently been updated to provide a more robust search experience. Searching for a business would bring up the usual search criteria, as well as ratings, reviews, and if applicable, the website to the business. Another addition to the update includes the ability to receive routes for different methods of transportation including walking, and public transit. This update can be found in the Android market. As of November 2009, Google Maps offers free Google Maps Navigation (turn by turn GPS with TTS) for Android phones running with Android 1.6 or higher in the United States.

Location information

The HTC Magic offers two different sources of location information for applications such as Google Maps: a GPS receiver built-in to the chipset, and radio-tower location based on a database of mobile phone tower locations. In addition, the Magic includes a digital compass; it allows one to turn the phone showing the local map to orient it correctly (the map is not turned on the screen, North is always up).

Hardware

- Two different hardware platforms exist for this phone (they require different boot images and wireless LAN kernel modules):

- The PVT32A, with a Qualcomm MSM7200A ARM11 processor, and 288MB RAM.
 - The PVT32B, with a Qualcomm MSM7201A ARM11 processor, and 192MB RAM.

The only models that use the 32B platform are the original T-Mobile myTouch 3G (v1.2 of this phone, released in Feb 2010, switched to the 32A), the Vodafone Magic and the Google Ion developer phone.

- Three different 3G radio configurations exist for this phone (listed in the order in which they were released):

- The T-Mobile and Google models support AWS (band IV) and IMT (band I), so they are compatible with the 3G networks of T-Mobile and WIND Canada, and some carriers in Europe and Asia.
 - The 'world' version of this phone supports IMT (band I) and GSM (band VIII), so it is compatible with 3G networks in Europe, Asia, and Brazil.
 - The Rogers Canada version of this phone support PCS (band II) and CLR (band V) so it is compatible with the 3G networks of AT&T in the U.S., and with Rogers, Fido(Rogers), Bell, and Telus in Canada.

(All of these support the same four standard 2G GSM frequencies, so they can be used without 3G on most GSM networks anywhere in the world.)

- The PVT32B HTC Magic lacks a headphone jack. Headphones require a special adapter (bundled with T-Mobile myTouch 3G).
- The PVT32A HTC Magic (Sold as the Fender T-Mobile myTouch 3G and T-Mobile myTouch 3G 1.2 in the US) added a built in headphone jack on top of the phone.
- This phone has a hearing aid compatibility rating of M4.^[17]

Display	320 x 480 px, 3.2 in (81 mm), HVGA, 65,536 color LCD at 180 pixels per inch (ppi)
Input	Multi-touch capacitive touchscreen display, volume controls, proximity and ambient light sensors, 3-axis accelerometer
Camera	3.2 megapixel with auto focus
Connectivity	Wi-Fi (802.11b/g), Bluetooth 2.0+EDR, ExtUSB, A-GPS Quad band GSM 850 900 1800 1900 MHz GPRS/EDGE Tri band UMTS 900 1700 2100 MHz HSDPA/HSUPA (US/Europe) (7.2/2 Mbit/s)
Dimensions	113 mm (4.4 in) (<i>h</i>) 55 mm (2.2 in) (<i>w</i>) 13.65 mm (0.537 in) (<i>d</i>)
Weight	116 g (4.1 oz)
Predecessor	HTC Dream
Successor	HTC Hero

- At 1.55 W/kg, the HTC Magic produces one of the highest levels of cell phone radiation specific absorption rate amongst commercially available mobile phones.^[18]
- **Display:** 3.2 in (8.1 cm) TFT-LCD flat glass touch-sensitive HVGA screen with 480 X 320 pixel resolution. The capacitive touchscreen makes it impossible to use a standard stylus. Users can interact to bring up or move content with a finger touch, tapping or touch-drag motion. The touchscreen hardware is capable of multitouch gestures^[19], but official release of Android (v1.0 to v1.6) available for the Magic have this functionality disabled at the kernel level. Users can patch the supplied version of Android, download a hacked version or update to Android 2.0 or later to make use of the multi-touch screen.
- **CPU:** The MSM7200A (PVT32A) or MSM7201A (PVT32B) is an ARM-based, dual-core CPU/GPU from Qualcomm and contains many built-in features, including 3G and a GPU capable of up to 4 million triangles/sec. It has hardware acceleration for Java,^[20] but this does not accelerate execution of Android applications, as they are targeted to the Dalvik VM, not the Java VM.
- **Keyboard** The HTC Magic does not have a physical keyboard. Text input is done through an on-screen keyboard. The keyboard can be set to provide haptic and sound feedback when keys are pressed. The HTC Magic has a built in accelerometer which rotates the keyboard between portrait and landscape view automatically based on the orientation of the phone. The HTC Magic also has a number of physical back-lit buttons:
 - Send (Green) - Launches the dialer to call a number, or accepts an incoming call, or hold to launch the voice dialer.
 - Home - Returns to the android Home Screen, or hold to open up a list of recently used applications.
 - Menu - Opens up the menu of the active application, or hold to open up the keyboard.
 - Back - Exits out of the keyboard, or goes back to the previous application, or goes back a page in the web browser.
 - Search - Launches a search function in the active application, or hold to launch voice search.
 - End (Red) - Ends a call if there is a call currently active, or puts the phone into sleep mode, or hold to Power off the phone.
 - Trackball - Backlit Trackball navigates between menus or scroll through a line of text, press down to select the highlighted item.
 - The HTC Magic also has an LED indicator which flashes for missed calls, text messages, or lights up orange when charging, or green when charging is 90% or higher. There is also a Volume Rocker on the left side of the phone. There is no physical dedicated camera button.
- **Camera:** The HTC Magic has a 3.2-megapixel camera with autofocus functionality.
- **Video:** The HTC Magic can play H.264, streaming, 3GPP, MPEG4, and 3GP files.^[21] There is no light ("flash") for the camera in low light conditions. Video recording and uploading to YouTube is available as of Android 1.5. Recording resolution 352x288 H.263 3GP Mono sound @ 8 kHz.
- **Storage:** The HTC Magic has a microSD card slot and comes with a 4GB Class 2 SDHC memory card. It has been confirmed to work with capacities up to 16GB, and may work with even larger cards. When the USB cable is connected to a computer, this computer can access the card without removing it from the HTC Magic. The phone can access media files arranged in folders, but the folders have to be created from a third-party file management application or from a computer.
- **Battery:** The HTC Magic has a user-replaceable, 3.7V, 1340mAh rechargeable lithium ion battery, which is advertised to offer up to 600 hours of standby power.
- **Location:** The HTC Magic has a built in GPS receiver for location functionality including free turn by turn GPS (Google Maps Navigation, originally only in the United States, now also available in the United Kingdom). It can also use cell towers and wifi hotspots to help determine its location. The HTC Magic has a built in digital Compass to help determine its orientation.
- **Case:** Three different colors are available for the myTouch 3G: Black (Gray Trim), Merlot (Black Trim), and White (Silver Trim). The Google Ion version of the HTC Magic is black with a dark blue trim and silver buttons. The Vodafone HTC Magic is white with a silver trim.
- **Connectivity:** The HTC Magic supports WiFi, 3G UMTS and HSPA, EDGE, and GPRS networks. The myTouch 3G supports AT&T's network but only on 2G/EDGE.

Package contents

The T-Mobile myTouch 3G comes bundled with a pair of headphones, a extUSB headphone adapter (which also serves as an in-line microphone), wall charger, USB Cable, Cloth Pouch, Screen Protector, and documentation, all inside a unique carrying case that also serves as the retail box. The Phone itself also has a 4GB SanDisk Class 2 microSD Card (SDHC) inside.

The Vodafone HTC Magic comes bundled with a pair of headphones, wall charger, USB cable, leatherette pouch and documentation. The phone comes with a 2GB microSD card.

The Vodafone Germany/New Zealand/Australia HTC Magic comes bundled with a pair of headphones, wall charger, USB cable, leatherette pouch and documentation. The phone comes with a 8GB microSD card.

See also

- List of Android devices
- HTC Dream
- HTC Hero
- HTC Tattoo

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External links

- [HTC Magic Product Overview \(http://www.htc.com/www/product/magic/overview.html\)](http://www.htc.com/www/product/magic/overview.html)

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