

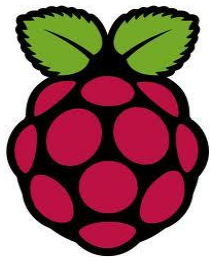
Raspberry Pi

- The Raspberry Pi is a credit-card-sized single-board computer developed in the UK by the Raspberry Pi Foundation with the intention of stimulating the teaching of basic computer science in schools.
- Plugged into a TV and a keyboard a miniature ARM-based PC can be used for many of the things that a desktop PC does, like spreadsheets, word-processing and games. It also plays High-Definition video. The Raspberry Pi model B board is supplied as the board only, and comes without operating system, SD card, power supply, keyboard, case or cables.
- Together with low needs of Open Source to apparatus part, it allows to download Linux, as well as a set of accompanying software.

For example:

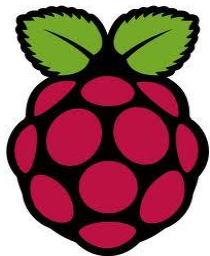
- ✓ Ubuntu Linux,
- ✓ Browser Iceweasel (clon of Mozilla Firefox),
- ✓ Office package Koffice (analog to Word/Excel under Windows)
- ✓ Python languages programming.
- ✓ Video in Full HD format.





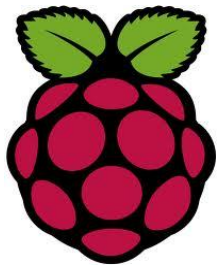
Advantages

- One of the main advantages is price / quality ratio.
- Ideal for studying computer and for the most applied tasks.
- Costing only AMD 29000 with case to end user, you get a credit-card sized system block, which allows to:
 - ✓ teach computer skills,
 - ✓ reproduce video,
 - ✓ program,
 - ✓ use Internet,
 - ✓ listen to music, etc.



Advantages

- Common system block in the cheapest complete set costs much higher and at the same time it allows to do the same and energy consumption is a hundred times higher than that of the Raspberry Pi.
- This is not a joke — power consumption of Paspberry Pi — is only 1 Wt, when the traditional system block uses minimum 250 Wt.
- These characteristics together with the price open world of information technologies even for those who has never had that opportunity before. This computer is useful first of all:
 - ✓ for studying (in schools for ex.),
 - ✓ as a cheap alternative work station (like in call-centers),
 - ✓ for routine work with documents and as home video-player and for many others things.

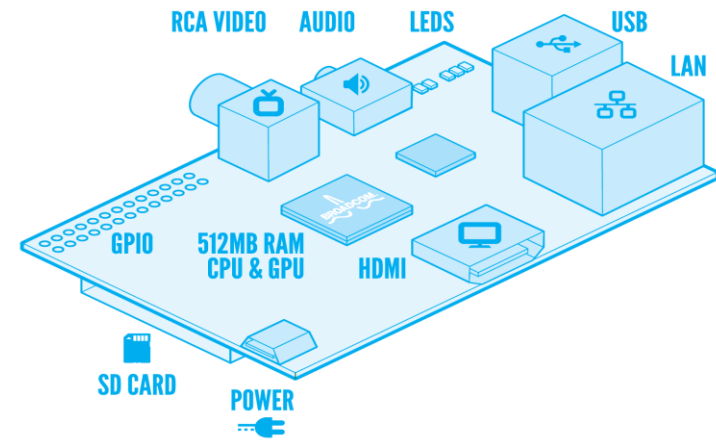


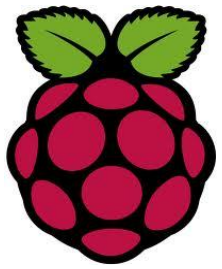
Technical characteristics

Raspberry Pi Model B:

- Processor: 700MHz ARM11
- Memory card: 512MB SDRAM
- OpenGL ES 2.0
- Video: 1080p30
- Audio: H.264 high-profile decode
- Composite and HDMI video output
- USB 2.0
- Slot for memory card SD/MMC/SDIO
- Common use system of input-output
- Extra onboard USB-concentrator (2 ports).
- Ethernet adapter 10/100 Mbt (necessary for the Internet).
- Open software (Ubuntu, Iceweasel, KOffice, Python)

RASPBERRY PI MODEL B





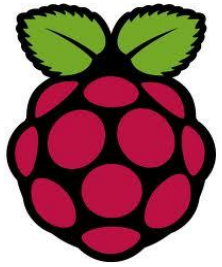
Application

- **Educational purposes**

Due to its low price Raspberry Pi can be included even in a limited budget of educational entities. It allows to solve the problems of teaching programming and basic computer skills. You can browse Internet, watch movies, prepare presentations, etc...

- **Mini-server**

- ✓ Taken together low cost, acceptable capacity and low power consumption Raspberry Pi can be used also as home server — installation of the needed software and its Linux setup is widely described in Internet.
- ✓ Making personal web-server on Raspberry Pi basis and hosting one's own site, instead of paying to hosting-providers. Still the characteristics of a provider's server are weaker than that of Raspberry Pi (processor 400 MHz against 700 MHz of Raspberry Pi).



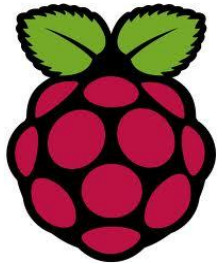
Application

- **Torrent-server**

- ✓ Available disc space of this computer is easily chosen depending on your needs, since Raspberry Pi hard dist is an SD flash card
- ✓ External hard disk of any capacity can be input through USB.
- ✓ These opportunities allow to create a platform for torrent-client constant operation. At the same no monitor is needed – as you can use this computer thought network by means of remote access.

- **Network router**

- ✓ Traffic routing. Many companies buy special devices, f.e. Cisco for Internet traffic filtration between local network and Internet. It is expensive. Besides, Cisco equipment requires specialists who are both familiar with internal routers and understand the equipment operation principles.
- ✓ In case of Raspberry Pi operation— right installation of standard Linux application Squid is only needed.



Thank you

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