AF_IC05_ Motherboards

Unit 3

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Introduction

In this Unit you will learn how to find in a motherboard **manual** the most important **features**, related to CPU, memory DIMMs, disk drives and other devices that you can connect to a motherboard. If you do not choose them with care, they may be incompatible.

So, before purchasing a motherboard you must know they specifications:

- · Compatible CPUs
- Compatible RAM DIMMs
- Number of SATA devices admitted
- Number and version of USB ports
- ...

You can find this information by reading the motherboard manual. You can also usually find it on the brand's website.

These are some motherboard manufacturers:



Asrock: http://www.asrock.com/index.asp



Asus: http://www.asus.com/uk/



Gigabyte: http://www.gigabyte.eu



MSI: http://eu.msi.com/

In order to do this Unit **Internet access** is a requirement.

Glossary

Visit these webpages one more time. You will learn and listen to some words related to this activity:



Quizlet activity about motherboard components and form factors



Quizlet activity about motherboard components and other computer parts

Activities

- 1. Make your own quizlet following the Glossary's example, do not use the same words and images. Then share your quizlet link in the moodle forum and check other students quizlets.
- 2. **Gigabyte GA-X79-UP4**. Motherboard technical specs. Visit this webpage



http://www.gigabyte.eu/products/product-page.aspx?pid=4766#ov

Read the information about the motherboard. Then, using the manual that you can find on the same website, answer the following questions:



http://download.gigabyte.eu/FileList/Manual/mb manual ga-x79-up4 e.pdf

- 1. What is the chipset of this motherboard?
- 2. What is the CPU socket?
- 3. What kind of RAM memory is compatible with this motherboard?
- 4. Search in an online store a processor compatible with this motherboard (link)
- 5. Search in an online store the fastest RAM memory for this motherboard (link)
- 6. If you want to install only two memory DIMM, where will you install them?
- 7. How many SATA internal devices can you connect?
- 8. How many eSATA devices can you connect?
- 9. How many USB ports does it have? Where are they located? What version are they?
- 10. What RAID methods does it support? For each method describe it and tell how many disks are needed.
- 11. Describe the process of installing the CPU and its cooler on the motherboard.
- 12. How many graphics cards working in parallel can be installed on this motherboard?
- 13. What are the brands of the graphics cards that can work in parallel on this motherboard?

Bibliography and Webgraphy



http://en.wikipedia.org_



https://dl.dropboxusercontent.com/u/1159579/SMX-M01.zip

Authors: Joan Coll and Marc Nicolau