



**Το Υλικό του Υπολογιστή**



**Υλικό (Hardware)** ενός υπολογιστικού συστήματος



Κεντρική Μονάδα

Κεντρική Μονάδα Επεξεργασίας  
(ΚΜΕ, CPU)

Κύρια Μνήμη  
(RAM)

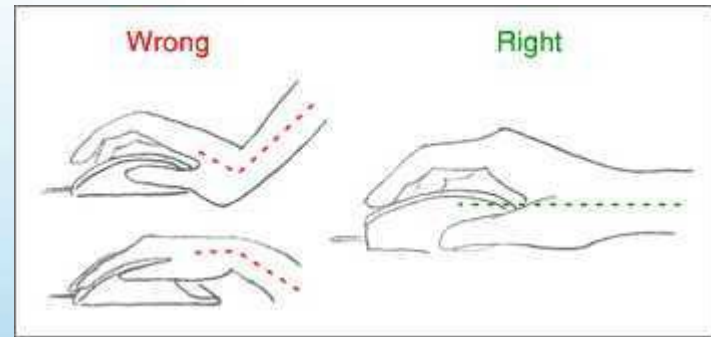
**Κεντρική Μονάδα** υπολογιστικού συστήματος

# Συσκευές Εισόδου





# Πληκτρολόγιο



# Ποντίκι



Σαρωτές Barcode



Σαρωτής



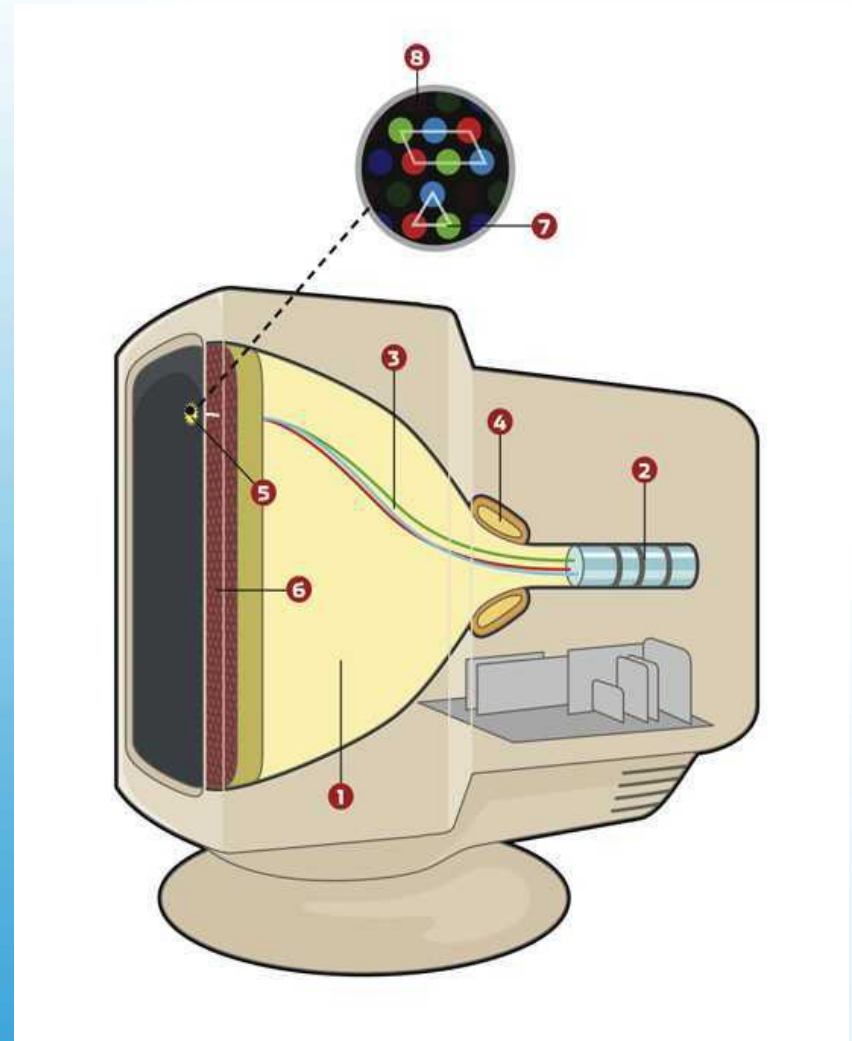
Άλλες συσκευές εισόδου



# Συσκευές Εξόδου



Επίπεδη (TFT)



Καθοδικού σωλήνα (CRT)

**Οθόνες**



Ink-jet



system where a  
ld allow us t  
mercialsupplier.

Dot-matrix

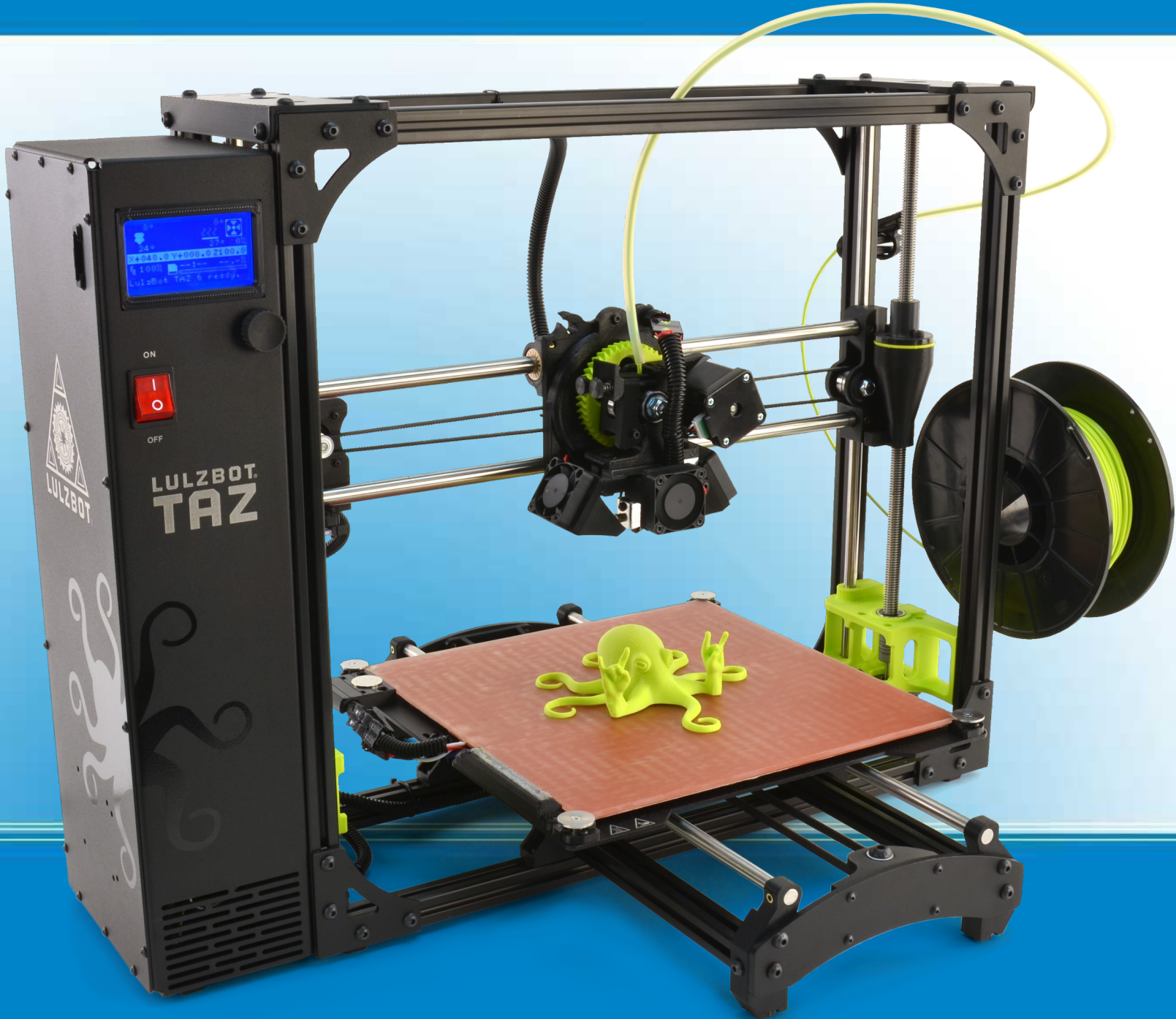


Plotter



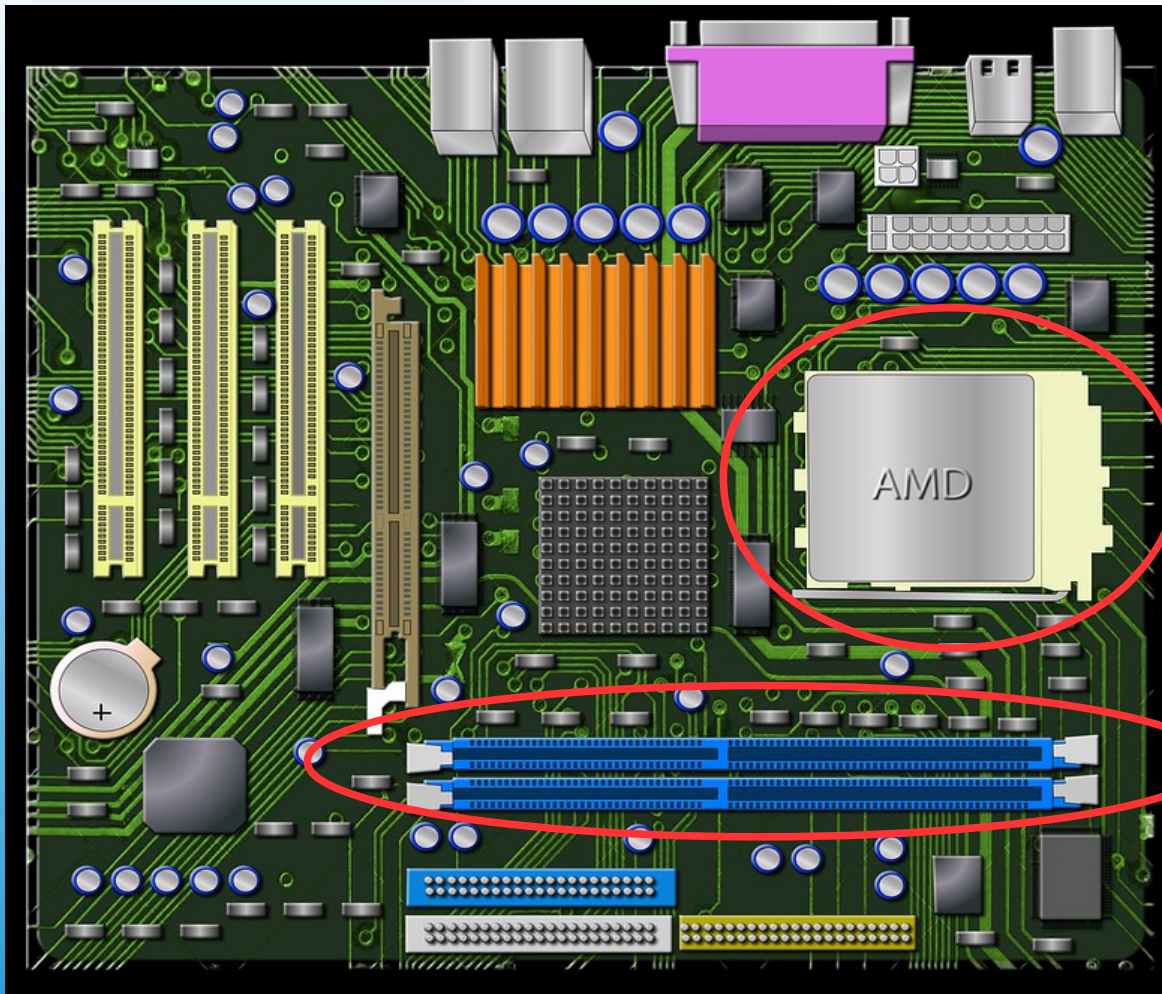
Laser

**ΕΚΤΥΠΩΤΕΣ**





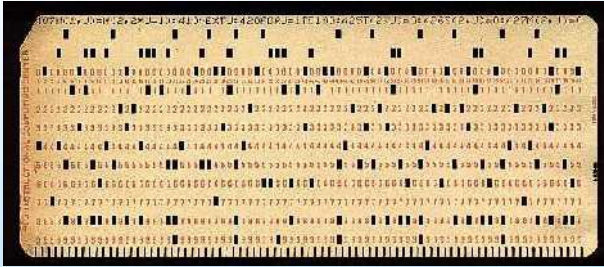
# Μονάδες Αποθήκευσης



Επεξεργαστής  
CPU

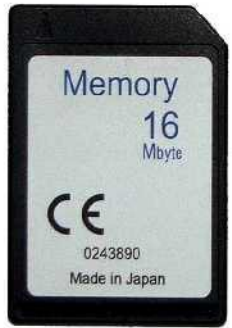
Μνήμη  
RAM

# Μητρική πλακέτα



# Αποθηκευτικά μέσα I





## Αποθηκευτικά μέσα II



## 5 MB hard drive in 1956



## 128 GB pen drive in 2017



# THE EVOLUTION OF DATA STORAGE

A LOOK BACK AT THE LAST 134 YEARS OF DATA STORAGE.



**1880's**

### PUNCH CARD

A device which helped analyze the 1890 US census data more efficiently than by hand.



**1950's**

### MAGNETIC TAPE

Originally made to record audio, became the new storage method of choice.



**1971**

### FLOPPY DISK

IBM introduces the first floppy disk which greatly increased the convenience of data handling.



**1963**

### REMOVABLE HARD DRIVE

IBM brought out the first removable hard drive, which had six 14-inch platters and held 2.6MB.



**1962**

### CASSETTE TAPE

The Philips Company of the Netherlands invented and released the first compact audio-cassette.



**1982**

### CD-ROM

Sony and Philips were the first to bring CDs to the market.



**1990**

### CD-RECORDABLE

Sony comes out with a compact disc that can record and erase as well as play back.



**2000**

### USB FLASHDRIVE

A reusable plug-and-play storage device first sold by IBM and Trek Technology.

**1999**

### SD CARD

By Panasonic, Toshiba and SanDisk, had the ability to store encrypted data from music to the use in phones and cameras.



**1995**

### DVD-R

Digital optical disc storage format, invented and developed by Philips, Sony, Toshiba, and Panasonic.



**1994**

### ZIP DRIVE

Introduced by Imagem, it was never popular enough to replace the floppy disk nor could ever match the storage size on CDs.



**2013**

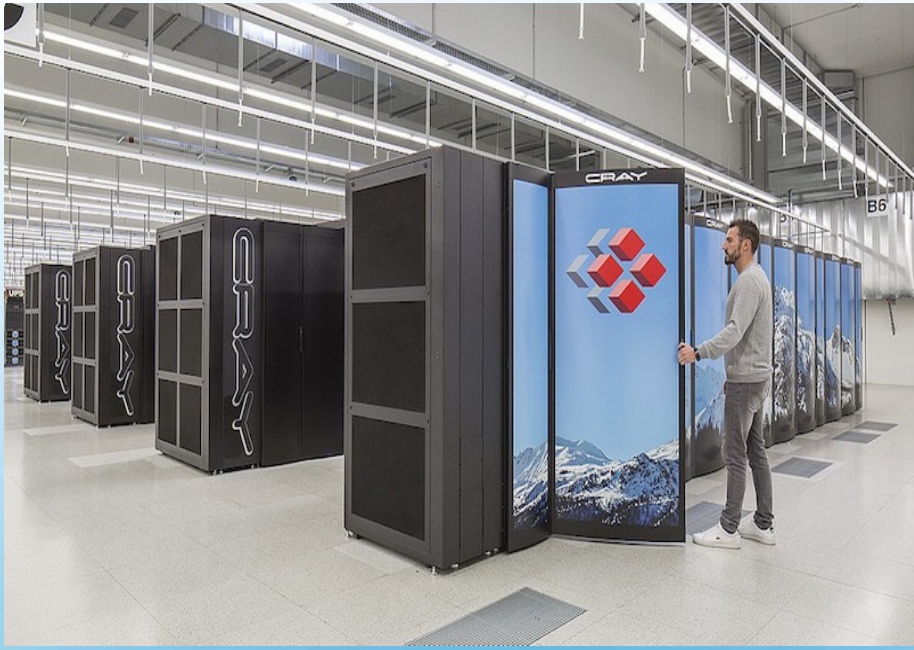
### THE CLOUD

More than half of the business use cloud storage. As of 2013, 1 Exabyte of data is stored in the cloud (that's 1,073,741,824 GB).

SOURCES: <http://inventors.about.com/library/inventors/bhollewith.htm>  
<http://www.historyofrecording.com/Magnetic-Tape-Recorders.html>  
[http://inventors.about.com/od/audioawarecordcom/p/a/Cassette\\_Tape.htm](http://inventors.about.com/od/audioawarecordcom/p/a/Cassette_Tape.htm)  
<http://www.pcworld.com/article/127105/article.html>  
<http://www.gamemods.com.au/2012/08/the-history-of-the-compact-disc/>

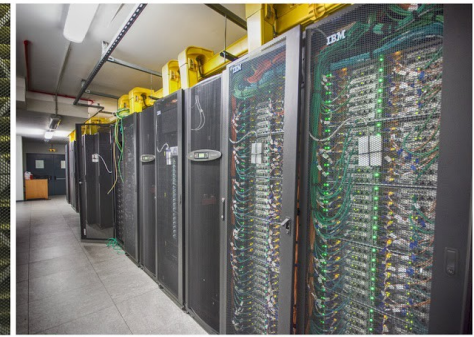
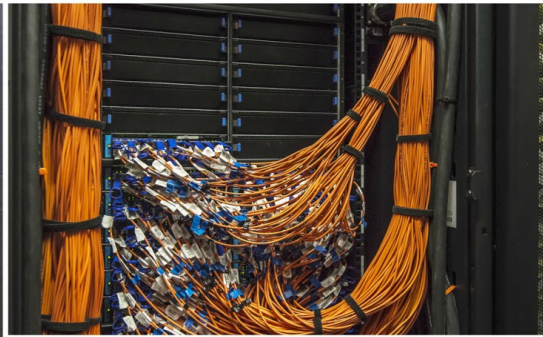
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# Είδη Υπολογιστών



# Υπερυπολογιστές - Supercomputers





Το **ARIS** (Advanced Research Information System) είναι το ισχυρότερο υπολογιστικό σύστημα στην Ελλάδα (Ιούλιος 2015). Έχει μέγιστη υπολογιστική ισχύ 444 TFlor/s (μπορεί δηλαδή να εκτελεί 444 τρισεκατομμύρια μαθηματικές πράξεις το δευτερόλεπτο).





**Μεγάλα Συστήματα - Mainframes**



Προσωπικοί υπολογιστές  
Personal Computers