

.
!

:

User

Human Being



.

Hardware



Software



.

.

.

.

.PC

Personal Computer

.

.

.(0/1) /

Binary System

.

. ...

Hardware

()

.

Software

.

:

Dos Unix Macintosh Windows

Operating Systems

•

.

PowerPoint

Word

Applications

•

Excel

.

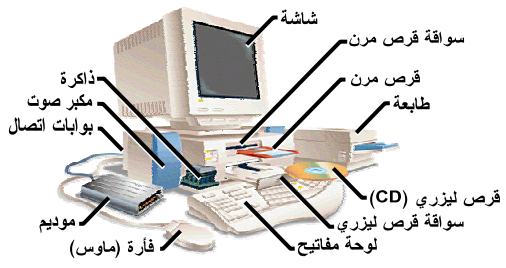
.

.

.

.

.

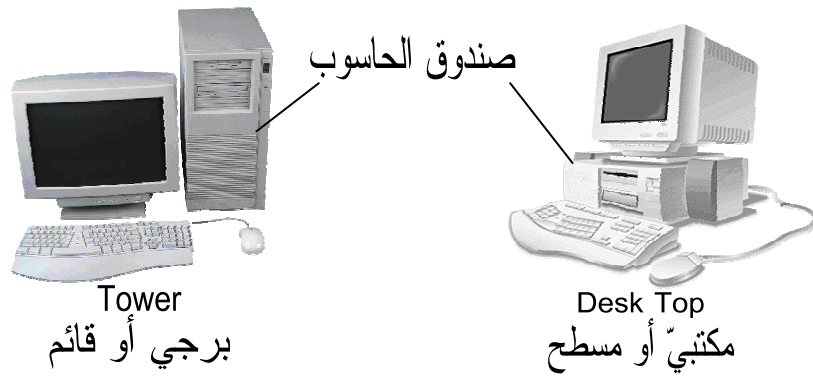


PC Hardware

:

Case Inside	.1
Input Units	.2
Output Units	.3
Data Storage Units	.4
Uninterruptible Power Supply	.5

Case Inside .1



Power on/off /



Motherboard

.RAM

CPU

Processor

(CPU) Central Processing Unit

ALU Arithmetic and Logic Unit

CU Control Unit

RAM

¹2Mb

Cache Memory

²MHz

Memories

Rom Read-Only Memory

¹

bit

Byte

2

1

1 0

1M=1024 K :Megabyte

1K=1024 Byte :Kilobyte

1T=1024 G :Terabyte

1G=1024 M :Gigabyte

3800 MHz

Pentium

2

3800

(BIOS) Binary Input\Output System

...
Ram Random Access Memory .2

RAM
1 512
(10^{-6} sec)

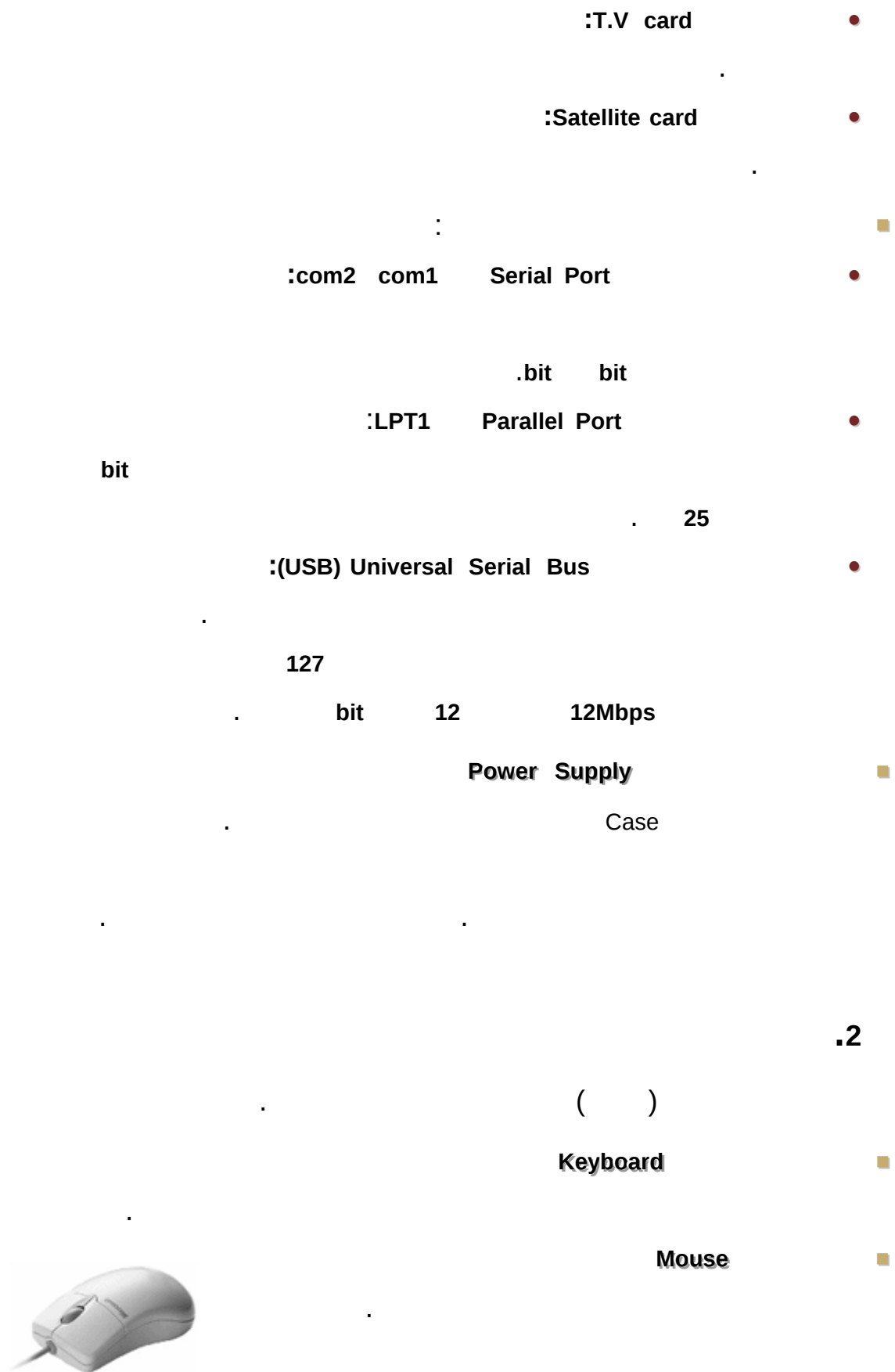
:VGA card

Pixels

:Sound card & Speakers

...
:Modem card

:Network card





Scanner



Digital Camera



Microphone



.3

()



Monitor



14

15

24

20

Printer



(dpi) dot per inch

:

:Laser Printer

()



طابعة ليزرية

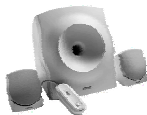
:Inkjet Printers

:Dot matrix Printers

Plotter

Speakers

Overhead Projector



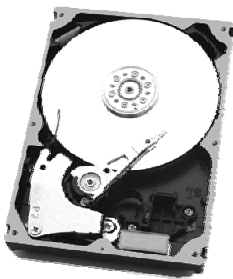
.4

RAM

.RAM

RAM

Hard Disk Drive



20

200

Floppy Disk Drive



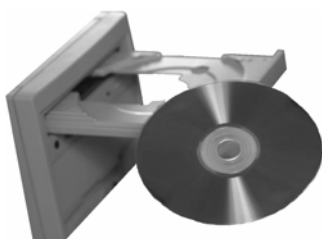
200

750

1.44

...

CD-Rom Drive



- 650

1

2

700

Multimedia

USB Flash Drive ■

2

.(USB) Universal Serial Bus

CD

DVD Drive

Digital Video Drive ■

3.7

Backup Drive ■

Tape Optical Drive Zip Drive

.Back up

.5

Uninterruptible Power Supply (UPS)

RAM

:

Compact

CD – Rom

1

" " .(

) Disk – Read Only Memory

150 = 1×

2

(SPS) Standby Power System

.1

(OPS) On-line Power System

.1

.SPS

OPS

...

