


## Technology Shopping

✓ **Review**

**Jerry Novickas**  
Instructor - Technical Support  
Software Installation  
Home Networking / Backups  
In-Home Instruction

Deerfield Beach  
(954) 260-7071  
jnovickas@yahoo.com



- **Fundamentals**
- **Computers**
- **Sales**
- **Other Products**

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For other class topics

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## Fundamentals – The Internet

- **Shopping on the Internet is convenient, cost-effective, and safe**
  - Price comparisons for just about anything
  - Read reviews and commentary before buying,
  - Have purchases delivered to your door
  - When shopping online, remember the old adage . . .

**“if it sounds too good to be true,  
it probably is.”**

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## Fundamentals – The Internet



- **47% of Americans over 65 use the Internet**
- **Seniors online jumped by 67% between 2000 and 2004**
- **Over 50 million U.S. adults over 50 have Internet access**
- **Many seniors initially said , "I can never do that," are excited and proud of their new skills**
- **The Internet is the easy, convenient, and cost effective communications instrument**


## Fundamentals – The Internet



- **Computer and Internet usage**
  - Eases depression and loneliness
  - Remove sense of isolation some older individuals feel
  - Many find email easier than the telephone
  - Important consideration for people with hearing difficulties
  - Email is path to reconnect with old friends, classmates and distant family
  - Grandparents can stay in contact with grandchildren
  - No long-distance fess
  - Resolve billing issues with retailers

**Operating Systems**

- **Windows XP**
  - 2001
  - 256 Megabytes
- **Linux**
  - 2004
  - 512 Megabytes
- **Windows Vista**
  - 2006
  - 2 Gigabytes
- **Apple OSX-10.5**
  - 2007
  - 2 Gigabytes
- **Windows 7**
  - 10/22/2009
  - 2 Gigabytes



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**Display Size**

- **Screen sizes start at 8.0" (diagonally) for Netbooks**
- **Up to 18" for gaming laptops (\$1,000)**
- **Display size is a key factor in a laptop's weight**
- **Brightness, color and sharpness quality tends to be uniform across the board**



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## Processor

- ***The processor is the brain of the computer***
- ***Impacts speed and performance as well its price***
- ***Processing power is more critical for those engaging in demanding activities such as Video editing and gaming applications***

## System Memory

- ***Also known as RAM (Random Access Memory)***
- ***The physical working memory a computer uses to run applications and the operating system***
- ***Directly affects speed and performance***

## Hard Drive

- **A hard drive's capacity indicates how many gigabytes (GB) of electronic information can be stored**
- **Such as files, applications, photos, songs and videos**
- **The amount of hard drive space you need is proportionate to how you plan to use your laptop**
- **Everyday tasks do not require as much storage space as digital photos, music, high-resolution digital media and games**


## Types of computers - Large

### **Desktop**

- **Separate, customizable components**
- **CPU, keyboard, mouse and monitor**
- **Designed for web browsing, e-mailing, watching movies, word processing, spreadsheets, graphics, games, large photo processing, video editing and rendering, musical composition**
- **Program and Data is stored on the local hard drive**
- **Keyboard Standard, with 10 key number pad**
- **Screens are either 14.5" to 30"**
- **Tower Weight about 24 to 38 pounds**
- **CPU Speed 1.8 to 4.0 ghz**
- **Hard Drive 180 gb to 1,000 gb**

## Types of computers - Large

- **Desktop**
- **Monitor / Speakers extra**



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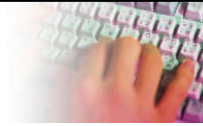
Tower	HP Pavilion Desktop	HP Pavilion Desktop	Gateway TV Desktop
	p6210y	p6230y	LX6810-01
	<b>\$579.99</b>	<b>\$679.99</b>	<b>\$739.99</b>
Processor Brand	AMD	AMD	Intel®
Processor	Athlon™ II X4	Phenom™ II X4	Core™2 Quad
Processor Speed	2.6GHz	2.6GHz	2.33GHz
Battery Type	n/a	n/a	n/a
Battery Life	n/a	n/a	n/a
Screen Size	n/a	n/a	n/a
System Memory (RAM)	6GB	8GB	8GB
(RAM) Expandable To	16GB	16GB	
Computer Hard Drive Size	640GB	750GB	640GB
Optical Drive	DVD±RW / CD-RW	DVD±RW / CD-RW	DVD±RW / CD-RW
Direct-Disc Labeling	Yes	Yes	Yes
Camera card reader	Yes	Yes	Yes
Built-in Webcam	No	No	No
Modem	No	No	No
Ethernet LAN (RJ-45)	Yes	Yes	Yes
Wireless Networking	None	802.11a/b/g/n	None
Bluetooth-Enabled	No	No	No
USB 2.0 Ports	6 (2 front, 4 rear)	8 (2 front, 6 rear)	6 (2 front, 4 rear)
Product Weight	9.8 lbs.	9.8 lbs.	31 lbs.
Pointing Device	Optical mouse	Optical mouse	Optical mouse
HDMI Output	No	No	Yes
Operating System	Windows 7	Windows 7	Windows Vista
Included Software	Microsoft Works Cyberlink DVD	Microsoft Works Cyberlink DVD	Microsoft Works Cyberlink DVD
TV Tuner			Yes

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## Types of computers - Small

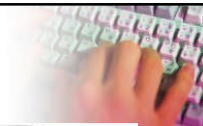
### **Notebook or Laptop**

- **Smaller than a desktop computer**
- **Combines, monitor, keyboard, mouse and CPU into portable case**
- **Designed for web browsing, e-mailing, watching movies, word processing, spreadsheets, graphics, games, photo processing**
- **Program and Data is stored on the local hard drive**
- **Keyboard Standard, usually without a 10 key number pad**
- **Screens are either 14.5" to 20"**
- **Weigh about 4.5 to 8 pounds**
- **CPU Speed .8 to 1.6 ghz**
- **Hard Drive 100 gb to 320 gb**



## Types of computers - Small

- **Notebook or Laptop**



Laptop	Toshiba Netbook	HP Netbook	Asus Netbook
	Intel® Atom™ NB205-N325BL	Intel® Atom™ 110-1036NR	Intel® Atom™ EPC900HDB
	<b>\$399.99</b>	<b>\$369.99</b>	<b>\$249.99</b>
Processor Brand	Intel®	Intel®	Intel®
Processor	Intel® Atom™	Intel® Atom™	Intel® Celeron®
Processor Speed	1.66GHz	1.6GHz	
Battery Type	6-cell lithium-ion		
Battery Life	9 hours	6 hours	3 hrs 5 min
Screen Size	10.1"	10.1"	
System Memory (RAM)	1GB	1GB	1GB
(RAM) Expandable To	2GB		2GB
Computer Hard Drive Size	160GB	160GB	160GB
Optical Drive	No	No	No
Direct-Disc Labeling	No	No	No
Camera card reader	Yes	Yes	Yes
Built-in Webcam	Yes	Yes	Yes
Modem	No	No	No
Ethernet LAN (RJ-45)	Yes	Yes	Yes
Wireless Networking	Wireless-B+G	Wireless-B+G	Wireless-B+G
Bluetooth-Enabled	No	No	No
USB 2.0 Ports	3	3	3
Product Weight	2.9 lbs.	2.9 lbs.	2.5 lbs.
Pointing Device	TouchPad	Touchpad	Touchpad
HDMI Output	No	No	No
Operating System	Windows 7	Windows XP	Windows XP
Included Software	Microsoft Works	Microsoft Works	Microsoft Works

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## Types of computers - Smaller

### **Small – Netbooks**

- **Smaller than a notebook computer**
- **Combines, monitor, keyboard, mouse and CPU into small portable case**
- **Wireless for internet access**
- **Designed for web browsing and e-mailing**
- **Rely heavily on the Internet for remote access to web-based applications**
- **Data Mainly stored on hard drive**
- **Keyboard is 85% of a standard keyboard**
- **Screens are 8.9” to 10”**
- **Weigh about 3 pounds**
- **CPU Speed .8 ghz to 1.6 ghz**
- **Hard Drive 2 gb to 160 gb**



## Types of computers - Smaller



- **Small – Netbooks**

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<b>Netbooks</b>	Toshiba Netbook Intel® Atom™ NB205-N325BL	HP Netbook Intel® Atom™ 110-1036NR	Asus Netbook Intel® Atom™ EPC900HDB
	<b>\$399.99</b>	<b>\$369.99</b>	<b>\$249.99</b>
Processor Brand	Intel®	Intel®	Intel®
Processor	Intel® Atom™	Intel® Atom™	Intel® Celeron®
Processor Speed	1.66 GHz	1.6 GHz	0.9 GHz
Battery Type	6-cell lithium-ion	4-cell lithium-ion	4-cell lithium-ion
Battery Life	9 hours	6 hours	3 hrs 5 min
Screen Size	10.1"	10.1"	10.1"
System Memory (RAM)	1GB	1GB	1GB
(RAM) Expandable To	2GB		2GB
Computer Hard Drive Size	160GB	160GB	160GB
Optical Drive	No	No	No
Direct-Disc Labeling	No	No	No
Camera card reader	Yes	Yes	Yes
Built-in Webcam	Yes	Yes	Yes
Modem	No	No	No
Ethernet LAN (RJ-45)	Yes	Yes	Yes
Wireless Networking	Wireless-B+G	Wireless-B+G	Wireless-B+G
Bluetooth-Enabled	No	No	No
USB 2.0 Ports	3	3	3
Product Weight	2.9 lbs.	2.9 lbs.	2.5 lbs.
Pointing Device	TouchPad	Touchpad	Touchpad
HDMI Output	No	No	No
Operating System	Windows 7	Windows XP	Windows XP
Included Software	Microsoft Works	Microsoft Works	Microsoft Works

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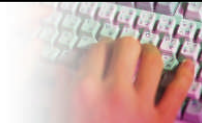
## Types of computers - Smallest

### **Smallest == > Palm Sized Power**

- iPhone
- GPS mapping
- 3 products in one
  - ❖ Revolutionary phone
  - ❖ Widescreen iPod
  - ❖ Desktop-class web browser
- Even use Word and Excel !

### **Requires dexterity and good eyesight**

- **Keyboard is touchscreen**
- **Screens are either 3.5"**
- **Weigh about 4.7 OUNCES**
- **CPU Speed .8 ghz to 1.6 ghz**
- **Hard Drive 8 gb to 16 gb**



## Types of computers - Smallest

### **Smallest == > Palm Sized Power**

0.48 inch  
12.3 mm

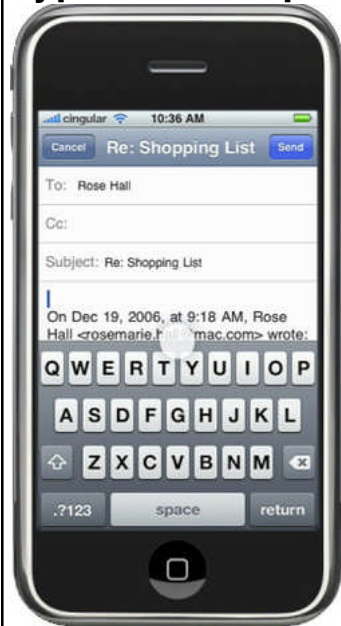
2.4 inches  
62.1 mm

4.5 inches  
115.5 mm

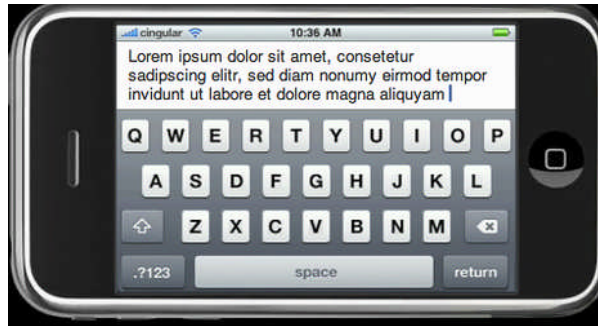


iPhone

## Types of computers - Smallest



- **Keyboard**



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## Buyer Beware

**ACER 10.1" INTEL  
1GB DDR2, 160GB  
HD NETBOOK PC**

**1GB** Memory

**BUILT-IN  
3G  
WIRELESS\*\***

**Save  
\$10**

**FREE\*\*  
Shipping**

**\$289<sup>99</sup>**

Compare at: ~~\$389<sup>99</sup>~~

#: 5445-110016

Intel Atom N270 1.6GHz, 1GB DDR2, 160GB HDD,  
10.1" WSVGA, GSM, 6 Cell, Windows XP Home,  
Diamond Black **Refurbished**


**Buy Now!**

**acer**  
Authorized Reseller

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**IN-STORE ONLY**

See store for price

**Acer® AO531h-1766 3G 10.1" Netbook**  
Model: A0531h-1766 | Catalog #: 25-1161

Get connected almost anywhere with the triple-threat Acer One A0531h-1766.

**Product Rating**  
★★★★☆  
(6 Ratings)

[Write a Review](#)  
[Read 6 Reviews](#)


Online: Not available | In-store: Available at most stores, [find it near you](#)

**Acer 10.1" (25-1161) for \$49.99 with activation - In-store only** [More details](#)

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Nokia Booklet 3G  
**All Day Mobility**

Experience unstoppable connectivity with the new Nokia Booklet 3G netbook. Beautifully designed yet highly durable, the Booklet 3G offers a broad range of connection options including speedy 3G broadband and Wi-Fi. Powered by the efficient Intel® Atom™ processor, it delivers extended battery life so you can leave your cords at home.



**NOKIA**  
Connecting People

Windows 7

- Enjoy the speed and versatility of 3G, Wi-Fi and A-GPS
- Stay connected with extended battery life
- View brilliant images on the 10.1" HD-ready 1280 x 720 display and HDMI-out
- Work and share wherever you are with Windows 7 and Nokia's Ovi Internet service
- Sync data effortlessly with your mobile phone

The Nokia Booklet 3G is available for \$299.99 with a 2-year AT&T DataConnect broadband plan or \$599.99 without a plan. Plans not available online but may be purchased and activated at a Best Buy store. See [store locator](#) for a store near you.


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<b>Blue Ray / DVD</b>	Dynex® Progressive-Scan DVD Player DX-DVD2 <b>\$29.99</b>	Toshiba Progressive- Scan DVD Player SD-4100 <b>\$44.99</b>	Samsung Progressive-Scan DVD Player with HD Upconversion DVD-H1080R/XAA <b>\$89.99</b>
Playback Formats	DVD, DVD+R, DVD+RW, DVD-R, DVD-RW, CD, CD-R, CD-RW	DVD, DVD-R DL, DVD+R DL, DVD-R, DVD-RW, DVD+R, DVD+RW, CD, CD-R, CD-RW, VCD, SVCD, MP3, JPEG	DVD, DVD+R, DVD-R, DVD+RW, DVD-RW, CD, CD-R, CD-RW, MP3, WMA, JPEG, DivX, MPEG 4
Maximum Output Resolution	Standard Definition to 480p	Standard Definition to 480p	Upconvert to 1080p
Digital Tuner	No	No	No
Progressive Scan	Yes	Yes	Yes
Dolby Digital Decoder	Yes	Yes	Yes
DTS Decoder	Yes	Yes	No
Simulated Surround	No	Yes	No
Media Card Slot	No	No	No
USB Port	No	No	Yes
Coaxial Digital Audio Outputs	1	Yes	1
Composite Video Outputs	1	Yes	1
Component Video Outputs	1	1	1
HDMI Outputs	No	No	1
Stereo Audio Outputs	1	1	1
ENERGY STAR Qualified	Yes	No	Yes
Netflix	No	No	No
YouTube	No	No	No

<b>Printers</b>	Canon PIXMA Wireless Multifunction Printer/Copier/Scanner MP560 <b>\$99.99</b>	HP Photosmart Wireless Multifunction Printer/Copier/Scanner C4795 <b>\$99.99</b>	Brother B&W Multifunction Laser Printer/ Copier/ Scanner DCP-7040 <b>\$179.99</b>
<b>Print Speed</b>	Up to 9.2 99m	Up to 29 ppm	Up to 23 ppm
<b>B&amp;W Resolution</b>	Up to 600 x 600 dpi	Up to 4800 x 1200 dpi	Up to 2400 x 600 dpi
<b>Color Resolution</b>	Up to 9600 x 2400 dpi	Up to 4800 x 1200 dpi	
<b>Paper Size</b>	Letter, legal	Letter, legal	Letter, legal
<b>Paper Capacity</b>	Up to 150 sheets	Up to 80 sheets	Up to 250 sheets
<b>Interface</b>	USB	USB	USB
<b>Ink</b>	1 black, 1 cyan, 1 magenta, 1 yellow (included)	1 black, 1 tricolor (included)	1 black (not included)
<b>PC-Free Printing</b>	Yes	No	No
<b>Network</b>	Ethernet, 802.11b/g wireless	802.11b/g wireless networking	
<b>Scanner Resolution</b>	Up to 2400 x 4800 dpi	Up to 1200 dpi optical	Up to 19,200 dpi
<b>Copies</b>	Up to 99	Up to 30	
<b>Reduction / Enlargement</b>	25-400%		25-400%
<b>Operating System</b>	Windows XP Vista Mac OS X 10.3.9 to 10.5x	Windows XP or Vista	Windows XP Vista Mac OS X 10.2.4 or later
<b>Wireless Networking</b>	Yes	Yes	No
<b>Duty Cycle</b>		Up to 1,000 pages/mo.	Up to 10,000 pages/mo.
<b>Product Weight</b>	17.8 lbs.	10.5 lbs.	24.4 lbs.

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	<b>Plasma</b>	<b>LCD</b>
<b>Screen sizes</b>	42-65+ inches	5-65+ inches
<b>Cabinet depth</b>	3+ inches	3+ inches
<b>Power consumption</b>	Less-efficient per square inch	More-efficient per square inch
<b>PC connectivity</b>	HDMI	HDMI
<b>Motion blur caused by display</b>	Negligible	More blurring than plasma 120Hz and 240Hz less motion blur
<b>Color saturation</b>	Varies, although generally a bit better than LCD due to black level and off-angle advantages	Varies, although the best models can equal the best plasmas
<b>Resolution</b>	1080p is standard in all but entry-level models.	1080p is standard in all but entry-level models.
<b>Off-angle viewing</b>	Excellent from all angles	Image fades slightly when seen from extreme angles from sides, above or below
<b>Reflectivity of screen</b>	Glass screens reflect lots of light May be an issue in very bright rooms Some have glare-reducing screens	Matte plastic screens reflect less light
<b>Burn-in (faint after-images left on-screen)</b>	Possible with still images left on-screen with bright settings Most burn-in is temporary and goes away after watching moving images	Occurs only in extreme circumstances
<b>Lifespan (hours until half-brightness)</b>	Typically 60,000 hours about 20 years if used 8 hours per day	Typically 60,000 hours about 20 years if used 8 hours per day
<b>HDTV</b>	Excellent for HDTV-compatible models.	Excellent for HDTV-compatible models.
<b>Standard-definition TV</b>	Dependent mostly on screen size. The smaller the screen, the better standard-def usually looks	Dependent mostly on screen size. The smaller the screen, the better standard-def usually looks
<b>DVD Movies</b>	Excellent given a model with good black-level performance	Very good

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