

# Personal Training Through Technology

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Media and Training Specialists

Chad Cardwell & Jeramy Cook

A.K.A. – “Geek Squad”

# New Horizon

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“A Competitive Company is the Direct Result of  
Trained and Educated Employees”

*Mr. New Horizon*

# “Trained & Educated”

## [www.NewHorizon.org](http://www.NewHorizon.org)

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### ■ Online Courses

- Job Specific
- Educational
- Hobbies

### ■ Free Software

#### Downloads

- Computer Protection
- Application Software

# Accessing NewHorizon.com

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## ■ Three Basic Requirements

- Computer System
  - Primary Hardware
  - Optional Hardware
- Associated Software
  - System
  - Required Applications
- Internet Access

# How? You Might Ask

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- Each Employee WILL Be Connected Through a Personal Computer
  - \$5,000 Budget to Purchase a Computer
  - Trained on HOW to Purchase a Computer

# What Type of Computer?

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- Hardware

- CPU
- Memory
- Storage
- Graphics
- Sound
- Optical Drive
- USB Ports
- Network Adapter
- Peripherals
- Optional Hardware

# Questions to Ask About the CPU?

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## ■ Which Brand Do I Choose?

- AMD VS. Intel

## ■ How Fast?

- Single Core 2 GHz +
- \*Dual Core 1.75 GHz +
- *Quad Core*



# Memory - RAM

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- Size Does Matter!
  - 1 Gigabyte minimum
  - \*2 + Gigabytes recommended



# Storage – Hard Drive

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- The Bigger the Better
  - \*80 + Gigabytes
  - Larger Drives are Still Affordable
  - Biggest Not Always Best Value

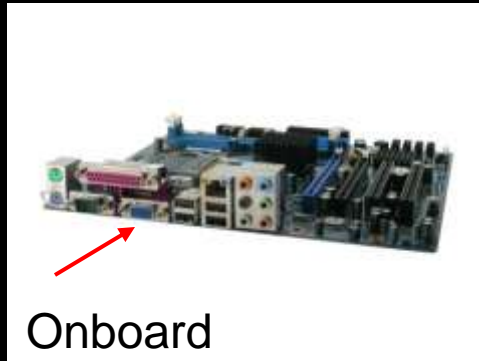


# Graphics – Video Card

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## ■ Brand

- Nvidia
- ATI



## ■ Format

- \*Onboard/Integrated
- Dedicated



# Sound Card

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## ■ Onboard/Integrated

- Built into computer
- High quality
- Only choice for laptops

## ■ Dedicated

- Higher quality
- More expensive
- Mainly available for desktops

# Optical Drive – CD/DVD

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- DVD-RW
  - Plays CDs/DVDs
  - Burns CDs/DVDs
  - \*Dual Layer DVD Burner



# USB Ports

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- Speed
  - USB 2.0 Standard
- # of Ports
  - 2-4 Standard
  - USB Hub Offers More



# Network Adapter – LAN, WLAN

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## ■ Wired

- Common in most computers
- \*10/100 MB/s



## ■ Wireless

- Common in laptops
- Wireless 802.11 b,g,n
  - \*g or n



# Peripherals

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## ■ Desktop

- Keyboard
- Mouse
- Speakers



## ■ Laptop/Notebook

- Already built-in
- Recommend mouse for heavy usage



# Optional Hardware

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- Printer/Scanner/Fax

- Purchased Separately  
or as a 3 in 1

- Web Cam

- Video Conferencing

- Flash Drives

- Portable Data Drives
- USB allows for  
Universal Compatibility



# Optional Hardware cont.

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## ■ PDA

- Palm Sized Portable Computer
- Planning & On-The-Go Computing

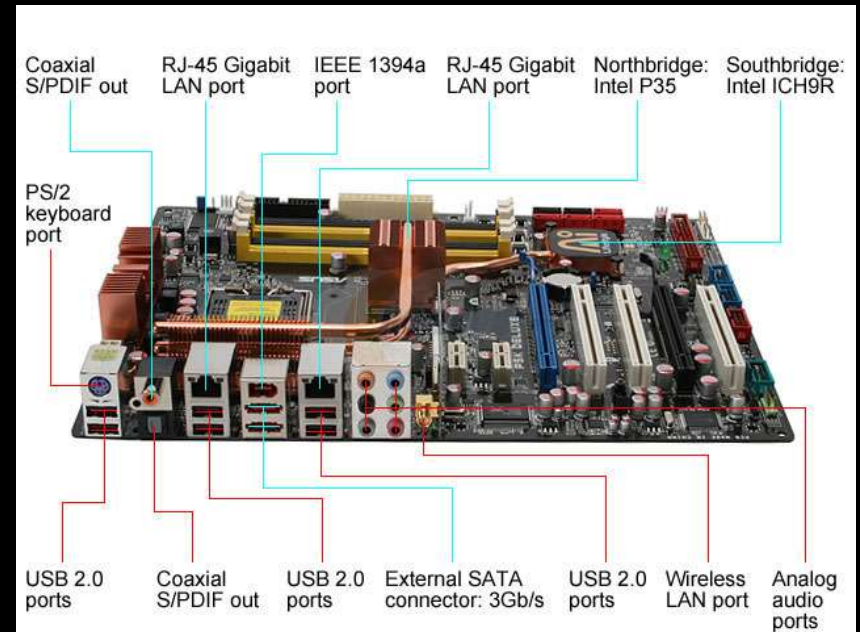


## ■ Laptop Connect Card

- Anywhere Internet Access
- Requires Subscription to Wireless Provider
  - AT&T, Alltel, Verizon...

# Desktop vs. Laptop

- Desktop Advantages
  - More Performance for Your Money
  - Upgradeability
    - Add-in Cards



# Desktop vs. Laptop

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- Desktop

## Disadvantages

- Large
- Heavy
- Not Portable



# Desktop vs. Laptop

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## ■ Laptop Advantages

- Small
- Lightweight
- Portable



# Desktop vs. Laptop

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- Laptop

## Disadvantages

- Cost More For Convenience of Size
- Less Options / Upgradeability



# Software

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## ■ System Software

### ■ Operating System

- At Least Windows XP
- \*Windows Vista

### ■ Anti-virus

- Norton, Mcafee, AVG
- MUST Have

### ■ Spy-ware Removal

- Spybot S&D, Ad-Aware
- Optional but Strongly Suggested

# Software

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## ■ Application Software

### ■ Microsoft Office

- Word, PowerPoint, Excel

### ■ Adobe Reader

- Reads PDF files

### ■ Media Player

- Windows MP
- QuickTime

### ■ Web-browser

- Internet Explorer
- Mozilla Firefox

# Internet Connection

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## ■ Types

### ■ Cable

- Usually Fastest –  
Bundled with Television

### ■ DSL

- Still Very Fast –  
Through Local Phone  
Service

### ■ Wireless Hotspots

- Local Coffee Shops
- Hotels
- Great for Laptops

### ■ Dial-up

- Very Slow
- Not Recommended

# Internet Connection

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## ■ Hardware

### ■ Modem

- Provided by ISP

### ■ Network Adapter

- Built in to Computer

### ■ Router

- Optional
- Multi-Computer Access to Internet
- Allows Wireless Connections

# How to Locate and Purchase a Computer

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## ■ Online Resources

- Allow for Comparison of Specifications and Price
- Manufacturer
  - Dell.com
  - HP.com
  - Gateway.com

# How to Locate and Purchase a Computer

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- Buy from Retailer
  - Newegg.com
  - Tigerdirect.com
  - PCconnection.com
  - Wal-mart.com
  - Bestbuy.com

# How to Locate and Purchase a Computer

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- Online Shopping Tools
  - Pricegrabber.com
  - Pricewatch.com
  - Froogle.com

# Newegg Desktop Sample

Newegg.com - Buy Computer Parts, PC Components, Laptop Computers, Digital Cameras and more! - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.newegg.com/

Back Forward Stop Search Favorites

Google G Go Settings

[login] 0 Items (\$ 0.00) MY ACCOUNT

**newegg.com**

SEARCH  GO CUSTOMER SERVICE HELP & INFO ABOUT US

BROWSE COMPUTER HARDWARE ELECTRONICS PCS & LAPTOPS APPLE CELL PHONES DIGITAL CAMERAS NETWORKING GAMING SOFTWARE DVDS SPECIALS

**Extreme Gaming Goes Mobile**  
Intel® Core™2 Extreme Mobile Processor ASUS

click to browse **DAILY DEALS**

New Homepage Launched!  
Please click [here](#) and tell us what you think!

Discover Exclusive Newegg Offers  
Enter your e-mail  **SUBSCRIBE**

**Computer Hardware**

- Memory
- Hard Drives
- Video Cards
- CPUs / Processors
- Monitors
- Printers & Scanners
- Computer Cases
- Motherboards
- Power Supplies
- CD / DVD Burners & Media
- Input Devices

**Electronics**

- Plasma / LCD / DLP TV
- Home Theater
- Projectors
- Cell Phones
- MP3 Players
- GPS & Accessories
- Home Appliances
- Car Electronics
- Apple iPod Players
- Electronic Gadgets
- Office Equipment

**PCs & Notebooks**

- Laptops / Notebooks
- Laptops & Accessories
- Tablet PCs
- Desktop PCs
- Ultra Mobile PCs
- Laptop Memory
- Laptop Hard Drives
- Cases For Him
- Cases For Her
- PDAs & Accessories
- Docking Stations

Done

start

ITED51102E - Micro... Microsoft PowerPoint ... Newegg.com - Buy C...

Internet 12:03 PM

# Advanced Search



Desktop PCs, Desktop PC Computers, Cheap Desktop PCs, Desktop Computer at Newegg.com - Microsoft Internet Explorer

Address: <http://www.newegg.com/Store/SubCategory.aspx?SubCategory=10&name=Desktop-PCs>

newegg.com

SEARCH  **GO**

CUSTOMER SERVICE HELP & INFO ABOUT US

BROWSE COMPUTER HARDWARE ELECTRONICS **PCS & LAPTOPS** APPLE CELL PHONES DIGITAL CAMERAS NETWORKING GAMING SOFTWARE DVDS SPECIALS

Guided Search  
▶ **Advanced Search**  
Power Search  
Learning Center

Keyword:

**Reset** **Search**

Useful Links:  
Any

Price:  
Any

Manufacturer:  
Any

Recommended Usage:  
Any

CPU Type:  
Core 2 Duo (48)

HD Capacity:

Home > PCs & Laptops > Desktop PCs > Desktop PCs

enano  
Reclaim Your Desktopspace!  
Get Instant Savings Now on All Enanos

Today's Desktop PCs Deals Page 1 | 2 | 3 | 4 | See All Deals | See All Desktop PCs

lenovo 3000 J115(7387A32) Athlon 64 X2 3600+ 1GB DDR2 - Retail

- Athlon 64 X2 3600+
- 1GB DDR2 250GB
- DVD+RW

4.0 [4]

\$399.99  
You Save: \$100.00  
(\$349.99 after \$50.00 Mail-In Rebate)  
3 Business Day Shipping \$23.42

ADD TO CART

PRODUCT REVIEWS  
747,157+  
View now

lantronix

Click here for more details

abs/

Buy a Gaming Rig and get a FREE 24" LCD Display!

enano

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# Advanced Search Criteria

The screenshot shows a Microsoft Internet Explorer browser window displaying the Newegg.com website. The address bar shows the URL: <http://www.newegg.com/Store/SubCategory.aspx?SubCategory=108&name=Desktop-PCs>. The page title is "Desktop PCs, Desktop PC Computers, Cheap Desktop PCs, Desktop Computer at Newegg.com".

On the left side, there is a sidebar with advanced search filters. The filters include:

- Reset Search
- Useful Links: Any
- Price: Any
- Manufacturer: Any
- Recommended Usage: Any
- CPU Type: Core 2 Duo (48)
- HD Capacity: Any
- CPU Speed: Any
- GPU/VPU Type: Any
- Memory Capacity: 2GB DDR2 (44)
- Operating System: Any
- Optical Drive Type: DVD±RW (83)

The main content area displays "Today's Desktop PCs Deals" with three product listings:

- lenovo 3000 J115(7387A32) Athlon 64 X2 3600+ 1GB DDR2 - Retail**
  - Athlon 64 X2 3600+
  - 1GB DDR2 250GB
  - DVD±RW
  - Rating: 4.0 (4)
  - Price: \$399.99
  - You Save: \$100.00
  - (\$349.99 after \$50.00 Mail-In Rebate)
  - 3 Business Day Shipping \$23.42
- HP Pavilion M7667C-B(RC644AA) 22" LCD Core 2 Duo E6400 (2.13GHz) 2GB DDR2 ... - Retail**
  - Core 2 Duo E6400(2.13GHz)
  - 2GB DDR2 600GB
  - DVD±RW
  - Price: \$989.99
  - You Save: \$60.00
  - 3 Business Day Shipping \$36.61
- lenovo 3000 J115(73879FU) Sempron 3400+ 512MB DDR2 NVIDIA GeForce 6100 - Retail**
  - Sempron 3400+
  - 512MB DDR2 80GB
  - DVD-ROM
  - Price: \$314.99
  - You Save: \$100.00
  - (\$264.99 after \$50.00 Mail-In Rebate)
  - 3 Business Day Shipping \$26.99
- Acer Power AP2000-UD4400P Core 2 Duo E4400(2.00GHz) 1GB DDR2 Intel GMA 3000 - Retail**
  - Core 2 Duo E4400(2.00GHz)
  - 1GB DDR2 160GB
  - DVD±RW
  - Price: \$629.99
  - 3 Business Day Shipping \$14.04

On the right side, there are several promotional banners for ABS, enano, and OLYMPUS. The ABS banner offers a gaming rig with a free 24" LCD display. The enano banner offers to reclaim desk space. The OLYMPUS banner offers a free digital frame with selected cameras.

The Windows taskbar at the bottom shows the Start button, several open applications (ITEDS1102E - Micro..., Microsoft PowerPoint..., Desktop PCs, Desko...), and the system tray with the time 12:09 PM.

# Results

Newegg.com - Buy Computer Parts, PC Components, Laptop Computers, Digital Cameras and more! - Microsoft Internet Explorer

Address: <http://www.newegg.com/Product/ProductList.aspx?Submit=ENE&N=2032260010+1141624149+1142317478+1142914676&Configurator=&Subcategory=100&descripti>

Home > PCs & Laptops > Desktop PCs > Desktop PCs (1-20 of 20 Results) > CPU Type : Core 2 Duo > Memory Capacity : 2GB > DDR2 > Optical Drive Type : DVD+RW

Search Results (customize your results) < Prev 1 Next >


Customize your viewing options with the checkboxes below.


- Brand
- Image
- Reviews
- Return Policy
- Item No.
- Model No.
- Description (4 specs)
- Description (8 specs)

SAVE & APPLY

COMPARE

Search Within Best Match 20 60

 **HP Pavilion M7667C-B(RC644AA) 22" LCD Core 2 Duo E6300(2.13GHz) 2GB DDR2 600GB NVIDIA GeForce 7500LE Windows XP Media Center - Retail** Original Price: \$1,049.99  
You Save: \$60.00  
3 Business Day Shipping \$36.61  
**Your Price: \$989.99**  
ADD TO CART  
ADD TO WISH LIST

 **Acer Power AP2000-UD6320P Core 2 Duo E6320(1.86GHz) 2GB DDR2 160GB Intel GMA 3000 Windows XP Professional - Retail** Original Price: \$729.99  
You Save: \$20.00  
3 Business Day Shipping \$14.04  
**Your Price: \$709.99**



# Computer Specs

Newegg.com - HP Pavilion M7667C-B(RC644AA) 22" LCD Core 2 Duo E6400(2.13GHz) 2GB DDR2 600GB NVI - Microsoft Internet Explorer

Address: <http://www.newegg.com/Product/Product.aspx?Item=N82E16883107502>

HP Pavilion M7667C-B(RC644AA) 22" LCD Core 2 Duo E6400(2.13GHz) 2GB DDR2 600GB NVI - Microsoft Internet Explorer

**CUSTOMER REVIEWS** **SPECIFICATIONS**

Original Price: \$1,049.99  
You Save: \$60.00  
**\$989.99**  
**3 Business Day Shipping \$36.61**  
(Not available in HI, AK and PR)  
In Stock

**ADD TO CART**  
**ADD TO WISH LIST**  
**EMAIL THIS PAGE**  
**PRINT THIS PAGE**  
**PRICE ALERT**

**Image Viewer (View All)**

**Protect Your Investment**  
Select An Optional Extended Warranty Plan  
*Extended warranty is not available for items combined with a free gift.*

**Special Offers**  
No Payments for 6 Months on purchases of \$500 or more with your Newegg.com Preferred Account!  
Click here for important disclosures  
**Bill Me Later**  
No Payments for 90 Days On purchases over \$250 with Bill Me Later®!  
Click here for important disclosures

**General Spec**

Brand	HP
Series	Pavilion
Model	M7667C-B(RC644AA)
Recommended Usage	Business Desktops & Workstations
Processor	Intel Core 2 Duo E6400(2.13GHz)
Processor Main Features	64 bit Dual Core Processor
Cache Per Processor	2MB L2 Cache
Memory	2GB DDR2 533
Hard Drive	600GB 7200RPM SATA 3Gb/s
Optical Drive 1	16X DVD(+/-)R/RW 12X RAM (+/-)R DL LightScribe SATA drive
Optical Drive 2	DVD-ROM
Graphics	NVIDIA GeForce 7500LE 256MB DDR memory
Audio	Integrated High Definition audio
Ethernet	Integrated 10/100 Base-T networking interface
Wireless Card	Wireless LAN 802.11 b/g

Model # W22, part # RG556AA LCD Monitor, 22" LCD wide-screen monitor  
Large diagonal viewable area display  
1680 x 1050 factory-set resolution

Fast response time provides better experience for gaming and graphics.  
Plug and Play capability, if supported by your computer system

start ITED51102E - Micro... Microsoft PowerPoint ... Newegg.com - HP Pa... 12:16 PM

# How Well Do You Understand?

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- Locate Two Computers
  - Use Online References
- Identify Major Component Parts
  - Use Assignment Sheet
- Analyze Major Component Parts
  - Sufficient or Insufficient