



SO YOU WANT TO BUY A COMPUTER

TAVCC Meeting – May 12, 2014

FROM FROWNS TO SMILES



DEFINE YOUR COMPUTING REQUIREMENTS

- Before you buy, use a legacy computing device (paper/pencil) to list your computing requirements.
 - Send and receive email and attachments
 - Make voice calls
 - Use text messaging
 - View web pages
 - Create, edit, and share large documents, spreadsheets, and data bases
 - Import, view, edit, and share photography and video files
 - Use your device as a multi-media player and storage facility
 - Communicate using audio-video programs (Skype) (Video Conference)
 - Store all of your STUFF safely and securely

CENTRAL PROCESSING UNIT (CPU)

Number of Cores

Hyper Threading

Clock Speed 2.67 Ghz

Level 2 Cache (3 MB)

Instruction Set (SSE)

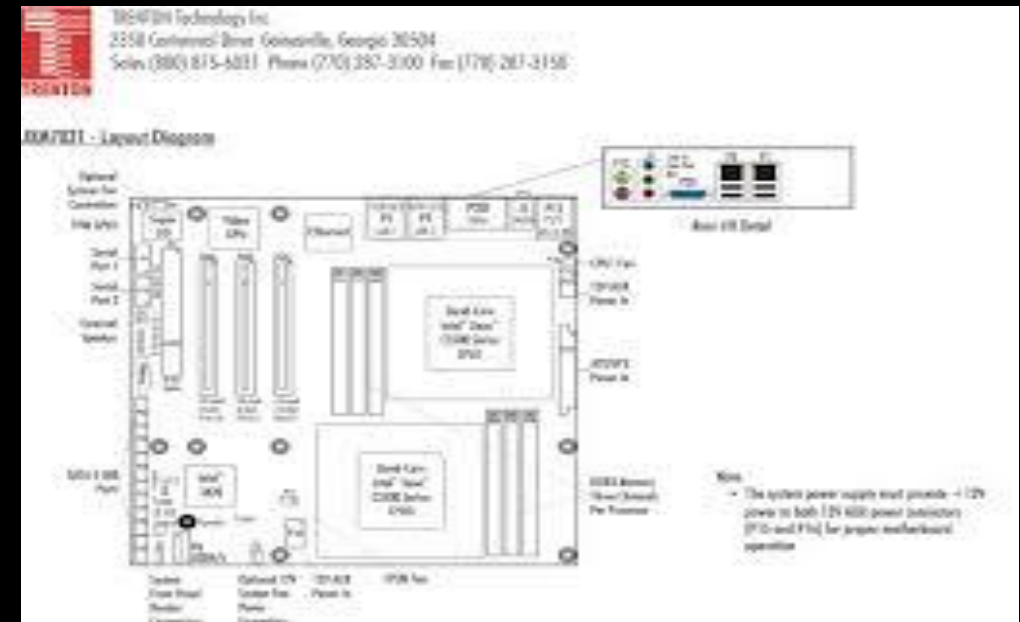


MOTHER OR SYSTEM BOARD (CHIP SET)

Motherboard



North and South Bridge



SYSTEM MEMORY (RAM)

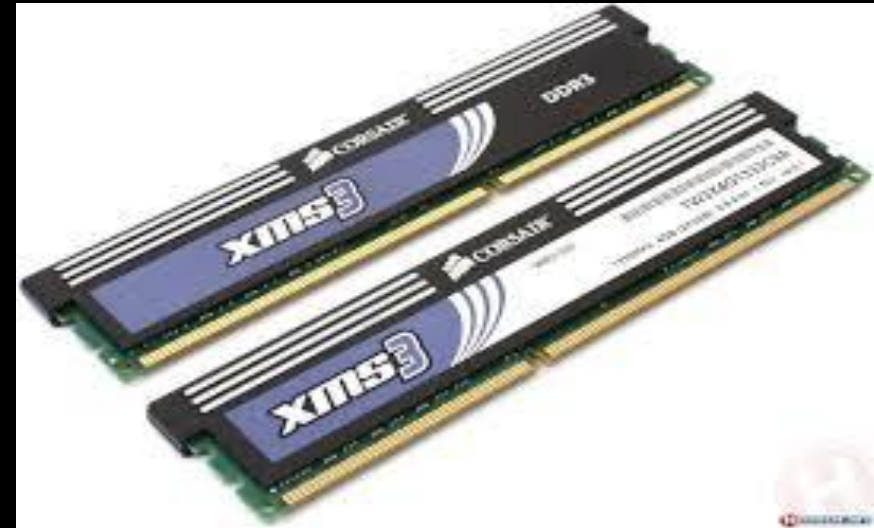
DDR3-1600 (Dual Data Rate v3)

Synchronous dynamic RAM (SDRAM modules)

SO-DIMM (small outline-dual inline memory module)

Measured in Bytes of storage (4 GB)

Total Memory=4 GB x 4 memory banks
(16 GB)



INTERNAL STORAGE DEVICE

Mechanical Storage



Solid State Storage



INTERNAL STORAGE SPECIFICATIONS

- **Hard Drive**

- Capacity in Bytes (2 Terabytes)
- Terabyte or more (One Terabyte=349,525 Photos)
- Read/Write Speed
 - Spindle rotational speed (rpm)
 - Read/Write head latency
 - Transfer Rate 100 MB/s

- **Solid State**

- Capacity in Bytes (500 Gigabytes)
- Gigabyte (One Gigabyte=345 Photos)
- Read/Write Speed
 - Near speed of light
 - Transfer Rate 500 MB/s

INPUT/OUTPUT COMPONENTS

- INPUT – Keyboard, Mouse (Pointing Device) Touch (Display or Track Pad), Stylus, Scanner, Microphone, Video Camera
- OUTPUT – Display, Printer, Speakers, Control Devices

OUTPUT DISPLAYS



DISPLAY RESOLUTION

Pixel Distribution



Display Definition



DISPLAY PROPERTIES

- Pixel (Dot Pitch) (Actually Not – rectangle or polygon)
- Dots per inch (DPI)
- Smoothing software (Graphics Card)
- Resolution (1920x1080)
- Liquid Crystal Display (LCD) – Light Emitting Diode (LED)
- Back Lighting and Tru-Brite or Matte Display
- Connection Interface (D-Sub, DL DVI, HDMI)
- Touch Capable

GRAPHICS CARD (GPU)



INKJET PRINTERS

Officejet Pro 8600



Inkjet 6450



LASERJET PRO CP1025 COLOR



PRINTER PROPERTIES

- Inkjet or Laser
- Professional Version
- DPI (resolution) (font scaling)
- Duty cycle
- Pages Per Minute (PPM)(Black 18, Color 7)
- Duplexing
- Connection Interface (Ethernet, Wireless, USB)
- Additional paper tray

WIRELESS AC ROUTER

802.11 g, n, ac (54, 600 Mbps, 1.3 Gbps)

Bands 2.4 & 5 GHz (simultaneous)

Processor 1.2 Ghz, dual-core ARM

Memory 128 MB Flash, 256 MB DDR3

Beam Forming Technology

NAS Ports USB 3.0, eSATA

LINKSYS WRT1900 AC



TRILOGY AT VISTANCIA COMPUTER CLUB

Questions? Feel free to email John Kovalick (sigint@aol.com)