

ICS 20

Unit 1
Hardware Review

1

Convert for me!

+ How many old school floppies (1.44MB) in a dvd (4.7GB)?

2

Computer Hardware

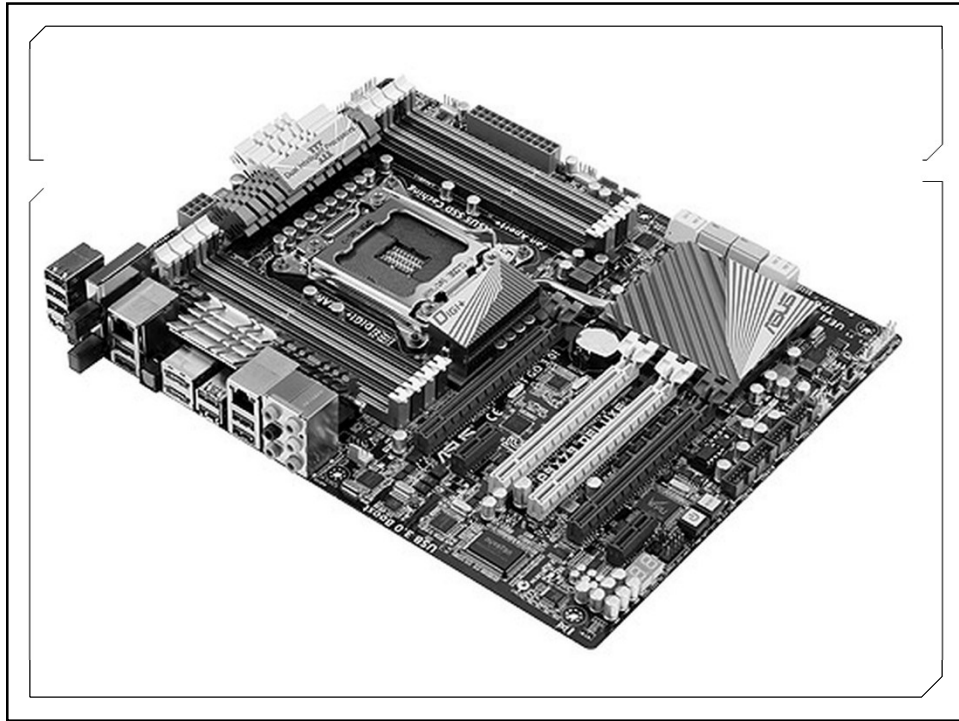
- + Main Parts?
 - + What do they all do?
 - + What are some examples?

3

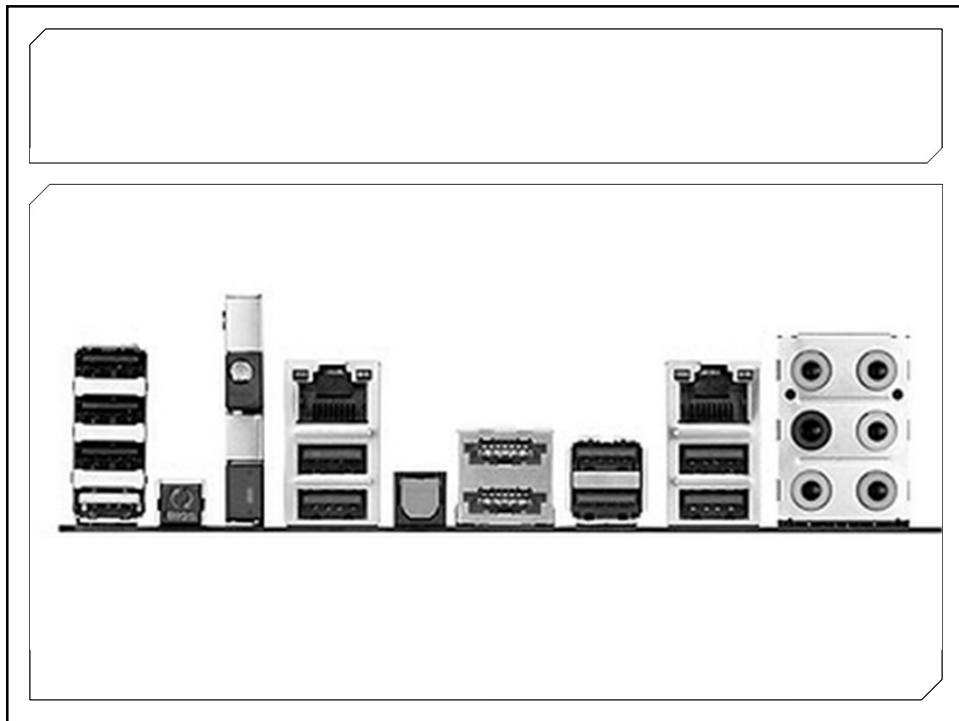
Network Cards?

- + Simply an access to a network
 - + Wired
 - + Speeds of 10, 100, or 1000 MB/s over regular ethernet
 - + See <http://www.cablemap.info/>
 - + Wireless
 - + Speeds:
 - + b 11 mbps
 - + g 54 mbps
 - + n 100+ mbps

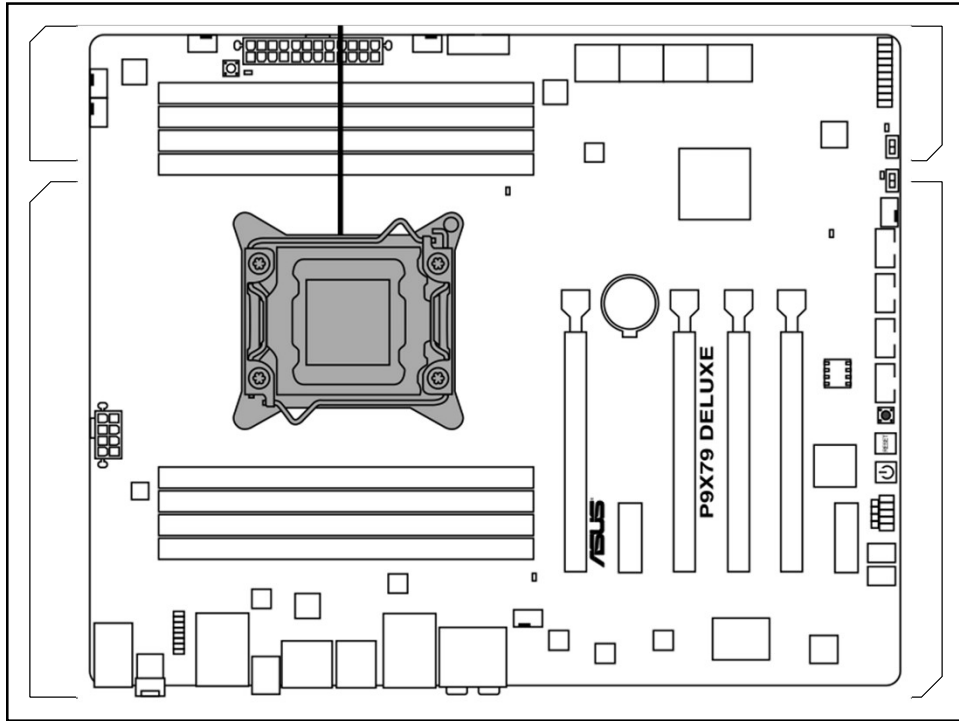
4



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What's important?

Intel Core i5-2500K Sandy Bridge 3.3GHz (3.7GHz Turbo Boost) LGA 1155 95W 6MB L3 Cache Quad-Core Desktop Processor Intel HD Graphics 3000
BX80623I52500K

Intel Core i5-2500K

3.3GHz

Intel Graphics 3000

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What's important?

EVGA 02G-P4-2680-KR GeForce GTX 680 2GB 256-bit GDDR5
PCI Express 3.0 x16 HDCP Ready SLI Support Video Card

EVGA

GeForce GTX 680

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Who is this suited for?

Processor Intel Core i5-3450 3.1Ghz 6MB L3 Cache

Memory 8GB DDR3 1333

Hard Drive 1TB SATA-III 6.0 Gb/s 7200RPM

Optical Drive 24x DVD-DL Burner

Graphics AMD Radeon HD 6670 1GB PCI-e Graphics

Gigabit Ethernet



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Who is this suited for?

Processor Intel Core 2 Duo 1.8GHz

Memory 2GB

Hard Drive 80GB

Optical Drive CDRW/DVD



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Who is this suited for?

Processor Intel Core i7-3820 3.6GHz 10MB L3 Cache

Memory 16GB DDR3 1333

Hard Drive 2TB SATA-III 6.0 Gb/s 7200RPM

Optical Drive Blu-Ray Player & DVDRW Combo Drive

Graphics Nvidia Geforce GTX 670 2GB PCI-e Graphics

Gigabit Ethernet



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Input / Output?

Monitor?

Keyboard?

Webcam?

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Software Review!

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Software Topics

- + What are the different kinds of Operating Systems?
 - + Single-User Single-task, etc
- + List 5 different operating systems (no more than two from any one company)
- + When did the internet officially take off? Why was this the "official" time?

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Software Topics

- + Explanations
 - + What does a driver do?
 - + What is linux?
 - + Name and explain one difference and one similarity you discovered between Ubuntu linux and Windows
 - + What are two main functions an operating system must do?

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Software Topics

- + Name and explain any four different types of malware
- + How can you protect against malware?
- + How can you tell if you have a malware problem?
- + How can you remove malware?
 - + Anti-virus / Anti-malware software
 - + Boot with a different OS (ex. Live CD)
 - + Erase and reinstall

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Software Topics

- + Computer Maintenance
 - + How to make a good password?
 - + Different strategies to clean up a computer (reactive)
 - + Scandisk
 - + Defrag
 - + Startup programs (msconfig)
 - + Different strategies to help prevent problems (proactive)
 - + BACKUP!
 - + Good power
 - + Anti-Virus / Anti-Malware

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