

Topic 1: Hardware and Software Cheat Sheet by ingerlm via cheatography.com/174143/cs/36585/

Conversions		
8 bit	1 Byte	x 8 (->bits)
1024 Bytes	1 KibiByte (KiB)	x 1024 (->Bytes)
1024 KibiBytes	1 MebiByte (MiB)	x 1024² (->Bytes)
1024 MebiBytes	1 GibiByte (GiB)	x 1024³ (->Bytes)
1024 GibiBytes	1 TebiByte (TiB)	x 10244 (->Bytes)
4 bit	1 nibble	x 4 (->bits)

transmission speed = file size / time taken

image file size = height in pixles x width in pixles x bit depth(or colour depth)

text file size = number of bits per character x number of characters sound file size = sample rate x duration x bit depth

Assess pe	erformance	of dig	ital d	evices
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speed

capacity

portability

bandwidth

power efficiency

Embedded System

Character- istics	Created to perform the task within a certain time frame	
	Task specific	
	High efficiency	
	Works with less power	
	High reliablility	
	Very Stable	
	Minimal or no user interface	
	Less expencive	
	Small sized	
	Hardware is used for security and performance	
	Software is used for features	
Features and Functions		
Advantages	Portable	

Embedded System (cont)

Security features (hardware)

Embedded Systems - programmed hardware devices that run on hardware chips, they are designed to work for single or few specific functions often within a larger system



Disadv-

antages

By **ingerlm** cheatography.com/ingerlm/

High performance

Less energy consumption

Minimal or no user interface

No or little expansion capability

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