

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

Embedded System (cont)

Security features (hardware)

functions often within a larger system

Embedded Systems - programmed hardware devices that run on hardware chips, they are designed to work for single or few specific

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 performance	of digital devices
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speed

capacity

portability

bandwidth

power efficiency

Embedded System

Linbouded Gystem		
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 F	unctions	

Advantages Portable

High performance

Less energy consumption

Disadv- Minimal or no user interface

antages

No or little expansion capability

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