

Conversions

8 bit	1 Byte	x 8 (->bits)
1024 Bytes	1 KibiByte (KiB)	x 1024 (->Bytes)
1024 KibiBytes	1 MebiByte (MiB)	x 1024 ² (->Bytes)
1024 MebiBytes	1 GibiByte (GiB)	x 1024 ³ (->Bytes)
1024 GibiBytes	1 TebiByte (TiB)	x 1024 ⁴ (->Bytes)
4 bit	1 nibble	x 4 (->bits)

transmission speed = file size / time taken

image file size = height in pixels x width in pixels 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

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

Assess performance of digital devices

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 reliability

Very Stable

Minimal or no user interface

Less expensive

Small sized

Hardware is used for security and performance

Software is used for features

Features and Functions

Advantages Portable

High performance

Less energy consumption

Disadv-antages Minimal or no user interface

No or little expansion capability