

Storage Device Summary

Device	Physical Method of Storage (Check)					Type Memory Retention (Check)		Access Method (Check)		Type Access Permitted (Check)		Speed (Bytes/sec)		Density (Bits /length, area, volume)	Capacity (Bytes)	Power Consumption to Keep Data (Check)	
	Electronic	Magnetic	Chemical	Topological	Acoustic	Volatile	Non-Volatile	Sequential	Direct	Read	Write	Read	Write			High	Low
Semiconductor Memory	X					X			X	X	X	1.25-15 ns			256 mb common on PCs		
Magneto-electronic Memory Deltic		X					X		X	X	X						
Semiconductor ROM	X						X		X	X		0.707 ms 25-250 ns					
CMOS Memory	X					X			X	X	X						
Floppy disk		X					X		X	X	X	84 ms avg		21 Kb/cm ²	1.44 MB common		
Zip disk 100 MB		X					X		X	X	X			1.44 MB/cm ²	96 MB		
Zip disk 250 MB		X					X		X	X	X			3.6 MB/cm ²	250 MB		
JAZ disk		X					X		X	X	X						
Hard disk		X					X		X	X	X			930 MB/cm ²	120 GB retail PCs in 2002		
Cassette Tape		X					X	X		X	X						
Quarter Inch Tape		X					X	X		X	X	@ 40s					
DAT Tape		X					X	X		X	X	@ 20s					
Digital Linear Tape		X					X	X		X	X		70 GB				
CD-ROM				X			X		X	X		80-800 ms		7 MB/cm ²	650 MB		
CD-R			X				X		X	X	Once						
CD-RW			X				X		X	X	X						
DVD-ROM				X			X		X	X					4.7 GB		
DVD-R			X				X		X	X	Once						
DVD-RW			X				X		X	X	X						
Optical Cube									X	X							
Punched Card				X				X		X	Once						
Paper Tape				X				X		X	Once						