	Memristor	PCM	STTRAM	SRAM	DRAM	Flash (NAND)	HDD
		Prototypes		Commercialized technologies			
Reciprocal density (F2)	<4	4-16	20-60	140	6-12	1-4†	2/3
Energy per bit (pJ)	0.1-3	2-25	0.1-2.5	0.0005	0.005	0.00002	1-10×10 ⁹
Read time (ns)	<10	10-50	10-35	0.1-0.3	10	100,000	5-8×10 ⁶
Write time (ns)	~10	50-500	10-90	0.1-0.3	10	100,000	5-8×10 ⁶
Retention	years	years	years	As long as voltage applied	< <second< td=""><td>years</td><td>years</td></second<>	years	years
Endurance (cycles)	1012	109	1015	>1016	>1016	104	104
*The energy to operate NAND f effective area for multi-level cell							