

Binary (IEC) and Decimal (metric) Equivalents

Prefix	To Binary (divide)	To Decimal (divide)	Base 2 (2 ^x)	Base 1024 (1024 ^x)	IEC Value	Metric Value
kibi/kilo	1.024	0.9766	10	1	1024	10 ³
mebi/mega	1.049	0.9537	20	2	1048576	10 ⁶
gibi/giga	1.074	0.9313	30	3	1073741824	10 ⁹
tebi/tera	1.100	0.9095	40	4	1099511627776	10 ¹²
pebi/peta	1.126	0.8882	50	5	1125899906842624	10 ¹⁵
exbi/exa	1.153	0.8674	60	6	1152921504606846976	10 ¹⁸
zebi/zetta	1.181	0.8470	70	7	1180591620717411303424	10 ²¹
yobi/yotta	1.209	0.8272	80	8	1208925819614629174706176	10 ²⁴

NOTE: The division factors are approximate. The “IEC Value” is exact according to IEC 60027-2 A.2 and ISO/IEC 80000.