

Guide to Product Speeds

Flash Card/DVD/CD/BD

Measuring product transfer speeds



There are several methods currently used to indicate the speed of flash memory products. Some brands use megabytes per second (MB/s), while some use a digit followed by “X” (eg: 16x for DVD or up to 300x for some memory cards). To cover all bases some even use both!

However, it can be quite difficult for consumers to gauge what a particular “X” rating actually means, and what rate of data transfer it represents. So to give a clearer picture the following table adopts the standard used to measure CD speeds (1X = 150KB/sec) and applies it to a variety of Verbatim products.

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Speed*	Flash card**	DVD**	CD**	BD**
1X	150KB/Sec	1.35MB/Sec	150KB/Sec	4.5MB/Sec
2X	300KB/Sec	2.7MB/Sec	300KB/Sec	9MB/Sec
2.4X	N/A	3.24MB/Sec	N/A	N/A
4X	600KB/Sec	5.4MB/Sec	600KB/Sec	18MB/Sec
6X	900KB/Sec	8.1MB/Sec	900KB/Sec	N/A
8X	1.2MB/Sec	10.8MB/Sec	1.2MB/Sec	N/A
10X	1.5MB/Sec	13.5MB/Sec	1.5MB/Sec	N/A
12X	1.8MB/Sec	16.2MB/Sec	1.8MB/Sec	N/A
16X	2.4MB/Sec	21.6MB/Sec	2.4MB/Sec	N/A
48X	7.2MB/Sec	N/A	7.2MB/Sec	N/A
50X	7.5MB/Sec	N/A	N/A	N/A
52X	7.8MB/Sec	N/A	7.8MB/Sec	N/A
56X	8.4MB/Sec	N/A	8.4MB/Sec	N/A
100X	15MB/Sec	N/A	N/A	N/A
150X	22.5MB/Sec	N/A	N/A	N/A
200X	30MB/Sec	N/A	N/A	N/A
250X	37.5MB/Sec	N/A	N/A	N/A
300X	45MB/Sec	N/A	N/A	N/A

* Strictly speaking, the performance of Flash memory products should not be measured with the same “X” classifications as CD/DVD products as the technologies are quite different. However, as many customers request this sort of comparison, many companies have informally adopted the CD speed measurement (1X = 150KB/sec) and applied this information to Flash memory products.

**The speeds indicated are achievable in a testing laboratory environment. Actual performance may vary and will depend upon the hardware / software specifications / settings of the device in which the item is used.