

# IBM NVMe FlashCore Modules

**IBM FlashCore Modules (FCMs)** are 2.5” form factor NVMe drives with *built-in hardware compression and encryption*

As data is written the drive, it’s compressed and encrypted *at line speed*

The drive attempts to compress data so that it uses less physical space. The potential capacity, *if supported by the workload compressibility*, is known as **effective capacity**

However, **FCMs** have a maximum **effective capacity**, beyond which they cannot be filled, even if the data can be compressed further. *This is shown on the right, by drive capacity*

**FCMs deliver maximum performance with compression**



Physical TB	Effective TB
4.8	21.99
9.6	28.8
19.2	57.6
38.4	115.2