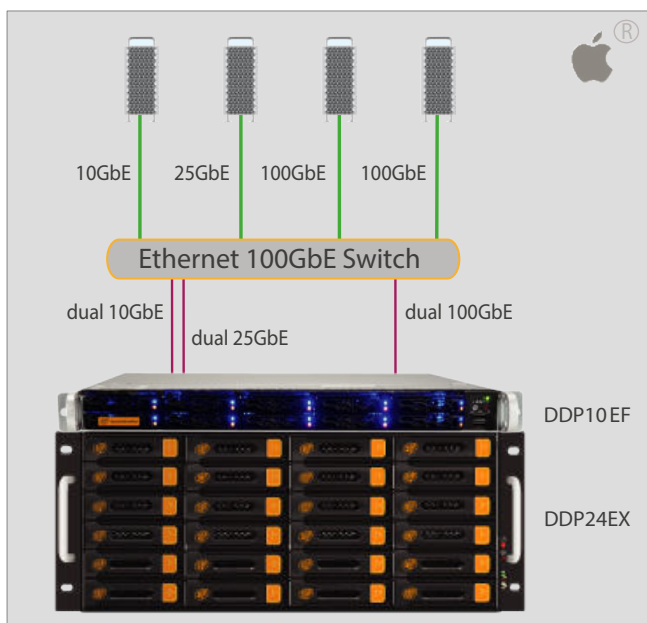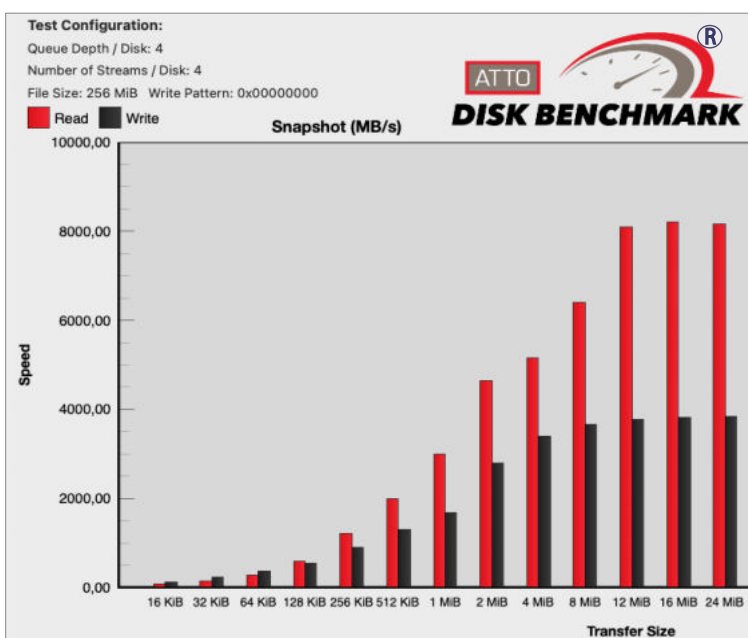# DDP10EF and Mac Pro - extremely fast iSCSI Ethernet

1U shared storage 40GB/s read 30GB/s write bandwidth*

A company looking for a shared storage solution, which can handle any film, video, audio format and prefers Macs may want to look at the DDP10EF. The bandwidth on a Mac Pro can be as high as 8 GB/s on reading and almost 4 GB/s on writing using iSCSI and a single port 100 GbE ATTO card. On M series Mac Mini and Mac Studio the bandwidth can be 2,5 GB/s on reading and writing using a single port on an ATTO TLN3-3252 Thunderlink.

Test Configuration:
Queue Depth / Disk: 4
Number of Streams / Disk: 4
File Size: 256 MiB   Write Pattern: 0x00000000

The DDP10EF base system comes standard with a dual 100GbE / QSFP28 card, sliding arms and a USB to Ethernet adapter for remote service and management.

The system can be delivered with a NVME SSD4 and or SSD6 with current SSD capacities of 960GB, 1.92TB, 3.84TB, 15.36TB and 30.72TB. The empty PCIe slot (1) can hold an extra network card or an EX card in cases where SAS spindle storage arrays, such as the DDP24EX must be connected. See the table for various options for the spare SIOM slot (A2).

The 2 SIOM slots can optionally be equipped with	with max bandwidth per port:
dual port 10GbE RJ45	1 GB/s
dual port 25GbE/SFP28	2,5 GB/s
dual port 100GbE/QSFP28	10 GB/s

1. PCIe 4.0 x 16 slot full-height, half-length (CPU2); 2. RAID Card;
A1. dual 100GbE/QSFP28; A2. PCIe 4.0 x 16 OCP 3.0 SIOM slot (CPU2)

The DDP10EF can be used standalone, clustered or can be combined with DDP SAS storage arrays (EX card needed) with hard disks currently up to 24TB. In such a hybrid setup the NVME SSDs can be defined as cache or as a standard Data Location. When used as cache internal data movement between hard disks and SSDs can be highly automated. See the Technology page on the DDPSAN website.

Depending on the number and capacities and brand of the NVME-SSDs

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