Information

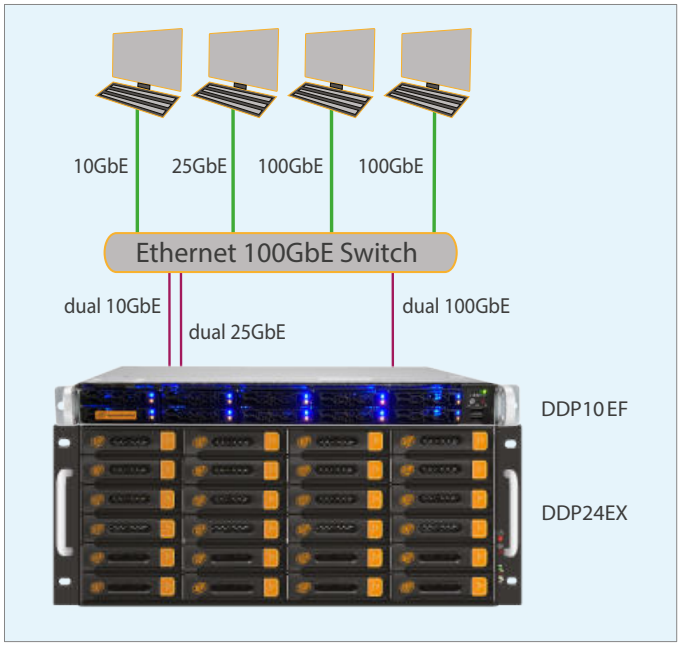
DDP10EF - extremely fast - future proof

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

A company looking for a shared storage solution, which can handle any film, video and audio format now and in years to come can consider the DDP10EF. The bandwidth on a Mac Pro can be as high as 8 GB/s on reading and 4 GB/s on writing using iSCSI. On Windows and Linux workstations bandwidth can be as high as 10GB/s using NVME-oF/RDMA ** and around 2,5 GB/s using iSCSI.
With the DDP10EF using iSCSI any format up to 4K, DPX can be handled with the DDP10EF using 10/25 GbE/ SFP28 adapters. When higher formats such as 8K DPX enter the picture 100GbE adapter must be used.
Both protocols can be used simultaneously.

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).

Add-on Card Slots	
1	PCIe 4.0 x 16 slot full-height, half-length (CPU2)
2	RAID Card
A 1	dual 100GbE/QSFP28
A 2	PCIe 4.0 x 16 OCP 3.0 SIOM slot (CPU2)



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

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.
In a hybrid setting the SSDs can be accessed via iSCSI and NVME-oF/RDMA.
The hard disks storage arrays are accessed via iSCSI.

* *Depending on the number and capacities and brand of the NVME-SSDs*
** *For NVME-oF/RDMA the NVME driver from Starwind can be used, www.starwind.com*

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