Information

2U shared storage 6 GB/s read 3 GB/s write bandwidth

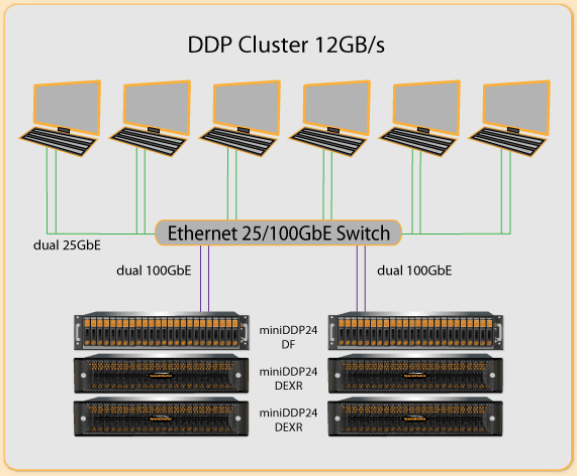
miniDDP24DF

SSD: affordable and fast

The miniDDP24DF is a shared storage DDP base system for SSDs. Its CPUs are specifically selected for very high performance in bandwidth and IOPs. It is developed for M & E companies where a limited number of seats work with very high quality video and film material in the 2K and 4K domain. The DDP can be filled with up to 24 SSDs. SSDs can be delivered in packs of 4 and 8. Per SSD8 pack performance increases with 2 GB/s on reading. When the miniDDP24DF is completely filled with 3 x SSD8 packs the performance is 6 GB/s. SSD packs consists of 1, 2, 4 or 8 TB SSDs. For data protection the SSD packs are configured with RAID5.

So one miniDDP24DF with 96 TB total (24 x 4TB) can store 84 TB of data because there are then 3 x RAID5 sets of 8 SSDs. 84 TB is sufficient to store 6 hours of uncompressed 8K, 10bit media.
There are 6 PCIe slots available. Ethernet cards to be used are 10, 25, 40, 50 and 100 Gb/s, dual or single and with RJ45, SFP+, SR/LC, LR/LC, SFP28 and QSFP28 connections. Both the total bandwidth and bandwidth per client scales up when 2 or more of these miniDDPP 24DFs are clustered. That is because desktops use iSCSI to access the units in parallel to read and write data. A possible cluster configuration is shown below.

One of the miniDDP24DF (any one) manages the A/V FS file system. The desktops know where to read from and where to write to and who has access when and how. It could be that the 6 GB/s bandwidth is required but not all that capacity is needed for active projects. In that case 3 SSD packs of 1, 2, 4 or 8 TB SSDs can be selected. In addition one of the PCIe slots can be used for an EX card to which a DDP16EX, or DDP24EX with HD packs can be connected. The SSDs are then used as a large cache and each file present on the SSDs have a duplicate on the spindles. So when a file is no longer in the cache because it has not been used for a while the file is automatically taken from the spindles.
To extend the SSD capacity of course a miniDDP24EXR can also be connected.



At the left a rear view of the miniDDP24DF.
The DDP comes standard with on board dual 10GbE / RJ45 ports. One of the empty PCIe slots is reserved for the raid card. The six remaining slots can be used for optional network cards.

DDP dimensions	43 x 68 x 8,8 cm/17 x 26.8 x 3.5 inch
DDP power usage	800W/dual power supplies
Package dimensions	59 x 85 x 39 cm / 23.2 x 33.5 x 15.4 inch
Package weight	33 kg / 72.8 lbs / on carton pallet with rails

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