



45Drives

ENTERPRISE

STORINATOR HYBRID - F8X1



45Drives offers tightly integrated storage and virtualization solutions that combine enterprise-grade hardware, open-source software, and comprehensive support. Our solutions give organizations complete control and flexibility over their data, eliminating risk associated with vendor lock-in. The Storinator Hybrid F8X1 combines SSD speed and HDD capacity, ideal for high-performance and high-capacity workflows.



HARDWARE

- Made in North America with 16g Steel
- 4U Rackmount Server (Rails Included)
- 12 Hard Drive Bays & 8 Solid State Drive Bays
- Up to 348.8TB of raw storage capacity
 - 288TB of HDD & 60.8TB of SSD
- Direct-Wire Architecture
- Tool-less & Cadiless Drive Access
- Latest Generation of AMD EPYC & Intel Xeon CPUs
- Up to 3 TB DDR5 ECC Memory
- Single or Redundant Power Supply Options
- IPMI capable

SOFTWARE

- Preloaded with Rocky Linux or Ubuntu (Hardened)
- ZFS on Linux + Houston User Interface
- Ceph Cluster-Ready
- File, Block, Object Storage
- SMB, NFS, iSCSI, S3 Protocols
- Private, On-Prem Cloud Available
- SnapShield Ransomware Protection Available



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STORNADO HYBRID By 45Drives

F8X1



CPU (AMD 8004)	Base AMD EPYC 8124P 16 Cores, 2.45 GHz 32 Threads	Enhanced AMD EPYC 8224P or 8324P 24 CORES, 2.55GHz or 2.65GHz 48 Threads	Turbo AMD EPYC 8534P 64 Cores, 2.3 GHz 128 Threads
CPU (Intel Xeon 4th Gen)	Base Silver 4410Y 12 Cores, 2 GHz 24 Threads	Enhanced Gold 5418Y 24 Cores, 2 GHz 48 Threads	Turbo Gold 6430 32 Cores, 2.1 GHz 64 Threads
CPU Architecture	64-bit		
Maximum Memory	1152GB (AMD) 2048GB (Intel)		
Maximum RDIMM Capacity(AMD)	RDIMM up to 96GB supported		
Maximum RDIMM Capacity (Intel)	RDIMM up to 96GB supported 3DS RDIMM up to 256GB supported		
Total Memory Slots	12 (AMD) and 8 (Intel)		
Motherboard Model	ME03-CE0 (AMD) or MS03-6L0 (Intel)		
PCI Slots (AMD)	3 x MCIO 4i connectors with PCIe Gen5 x 4 or SATA interface 1 x M.2 slot with PCIe Gen3 x 4 interface 3 x PCIe Gen5 x 16 expansion slots 3 x PCIe Gen4 x16 and x 8 expansion slots		
PCI Slots (Intel)	1 x SlimSAS connector for 4 x SATA 6Gb/s 2 x SATA 6Gb/s ports 1 x M.2 slot with PCIe Gen3 x4 interface 6 x PCIe Gen5 x 16 and x 8 expansion slots		
Electrical	100-240 VAC, 47-63 Hz IEC-320-C14 (server side) NEMA 5-15P (wall side) *Other regions also available		
Backplane	Direct Wire SATA SAS		
Number of Storage Drive Bays	12 HDDs & 8 SSDs		
Maximum Raw Capacity	288TB HDD & 60.8TB SSD (With 24TB HDDs & 7.6TB SSDs)		
ZFS RAID Options	0, 1, 10, Z1, Z2, Z3		
ZFS Support Vdevs (NVMe)	L2ARC, SLOG, Special Vdevs		
Networking (On-Board)	2x 1/10 Gb/s		
Networking (Add-Ons)	1, 10, 25, 40, and 100GbE		
Power	850W Non Modular ATX or 1400W 2U Redundant		
Form Factor	4U		
HBA Card	LSI 9305-24i		
Operating System	Rocky Linux 9 /Ubuntu 22 + Houston UI (Others Available upon Request)		
Boot Drives	2 x 480GB Enterprise SATA SSDs (Mirrored)		
Expansion	Ceph Cluster-Ready		
Dimensions	25.340"L x 17.125" W x 7.000"H		