



45Drives ENTERPRISE

STORNADO F1 Flash Storage Server



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 risks associated with vendor lock-in. The F1 Storage Server offers 32 bays for 2.5" SATA SSDs, delivering 12.5 GB/s and 732k IOPS, with all-flash reliability and efficiency for IO-intensive tasks



HARDWARE

- Made in North America with 16g Steel
- 2U chassis height (Rails Included)
- 32 bay SATA, and SAS
- Accommodates 2.5" SSDs
- Up to 243.2TBs of raw storage capacity
- Direct-Wire Architecture
- Tool-less & Cadiless Drive Access
- Push & Pop drive insertion/removal mechanism
- Latest Generation of AMD EPYC & Intel Xeon CPUs
- Up to 3TB (AMD) or 2TB(Intel) DDR5 ECC Memory
- Redundant Power Supply
- 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



STORNADO By 45Drives

F1



CPU (AMD 8004)	Enhanced AMD EPYC 8224P or 8324P 24 Cores, 2.65GHz 48 Threads	Turbo AMD EPYC 8534P 64 Cores, 2.3 GHz 128 Threads
CPU (Intel Xeon 4th Gen)	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 (RAM)	
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	32	
Maximum Raw Capacity	243.2 TB (With 7.6TB SSDs)	
ZFS RAID Options	0, 1, 10, Z1, Z2, Z3	
ZFS Support Vdevs (NVMe)	L2ARC, SLOG, Special Vdevs (Optional)	
Networking (On-Board)	2x 1/10 Gb/s	
Networking (Add-Ons)	1, 10, 25, 40, and 100GbE	
Power	800W 1U Redundant	
Form Factor	2U	
HBA Card	9305-16i	
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	23.000"L x 17.125" W x 3.500"H	
Weight	37 LBS (Fully Populated)	