



45Drives ENTERPRISE

STORNADO F16 NVMe 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 F16 storage server showcases this approach, offering speeds up to 55GB/s and 10.2M IOPs, ideal for intensive, real-time data processing tasks.



HARDWARE

- Made in North America with 16g Steel
- 2U chassis height (Rails Included)
- 16 Front loading Hot-Swappable Drive Bays
- Accommodates 15mm U.3 NVMe Drives
- Up to 480TBs of raw storage capacity
- Direct-Wire Architecture
- Tri-Mode Backplane (U.3 NVMe, SATA, SAS)
- Tool-less & Cadiless Drive Access
- Cableless, Bus Bar Backplane Power Delivery
- 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



HOUSTON



ceph



ZFS



SNAPSHIELD
RANSOMWARE ACTIVATED FUSE™

STORNADO By 45Drives

F16



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 6430 32 Cores, 2.1 GHz 64 Threads	Turbo 2x Gold 6430 64 Cores, 2.1 GHz 128 Threads
CPU Architecture	64-bit	
Maximum Memory	1152GB (AMD) 4096GB (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 16 (Intel)	
Motherboard Model	ME03-CE0 (AMD) or MS73-HB0/2 (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)	2 x M.2 slots with PCIe Gen4 x4 interface 6 x PCIe Gen5 x16 expansion slots	
Electrical	100-240 VAC, 47-63 Hz IEC-320-C14 (server side) NEMA 5-15P (wall side) *Other regions also available	
Backplane	Tri-Mode 45Drives Backplane (U.3, SATA, SAS)	
Number of Storage Drive Bays	16	
Maximum Raw Capacity	491.52 TB (With 30.72TB SSDs)	
ZFS RAID Options	0, 1, 10, Z1, Z2, Z3	
Networking (On-Board)	2x 1/10 Gb/s	
Networking (Add-Ons)	1, 10, 25, 40, and 100GbE	
Power	1350W 1U Redundant PSU	
Form Factor	2U	
HBA Card	LSi 9600-16i Tri-Mode (NVMe, SATA, SAS)	
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	29.318"L x 17.12" W x 3.408"H	