



# 45Drives

## ENTERPRISE

### STORNADO F2 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 F2 Storage Server supports 32 bays for NVMe (U.3), SAS, and SATA SSDs, offering 55 GB/s and 10.2M IOPS. Its Universal Backplane Management architecture ensures drive flexibility and streamlined management, making it ideal for Artificial intelligence, and Machine learning workloads.



#### HARDWARE

- Made in North America with 16g Steel
- 2U chassis height (Rails Included)
- 32 bay SATA, and SAS
- Accommodates 7mm NVMe SSDs
- Up to 243.2TBs of raw storage capacity
- Direct-Wire Architecture
- Tri-Mode Backplane (U.3 NVMe, SATA, SAS)
- 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



**HOUSTON**



**ceph**



**ZFS**



**SNAPSHIELD**  
RANSOMWARE ACTIVATED FUSE™

# STORNADO By 45Drives

## F2



<b>CPU (AMD 8004)</b>	<b>Enhanced</b> AMD EPYC 8224P or 8324P 24 Cores, 2.65GHz 48 Threads	<b>Turbo</b> AMD EPYC 8534P 64 Cores, 2.3 GHz 128 Threads
<b>CPU (Intel Xeon 4th Gen)</b>	<b>Enhanced</b> 2xGold 5418Y 24 Cores, 2 GHz 48 Threads	<b>Turbo</b> 2xGold 6430 32 Cores, 2.1 GHz 64 Threads
<b>CPU Architecture</b>	64-bit	
<b>Maximum Memory</b>	1152GB (AMD) 4096GB (Intel)	
<b>Maximum RDIMM Capacity (AMD)</b>	RDIMM up to 96GB supported	
<b>Maximum RDIMM Capacity (Intel)</b>	RDIMM up to 96GB supported 3DS RDIMM up to 256GB supported	
<b>Total Memory Slots</b>	12 (AMD) and 16 (Intel)	
<b>Motherboard Model</b>	ME03-CE0 (AMD) or MS73-HB0/2 (Intel)	
<b>PCI Slots (AMD)</b>	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	
<b>PCI Slots (Intel)</b>	3 x SlimSAS connectors for 12 x SATA 6Gb/s 2 x SATA 6Gb/s ports 2 x M.2 slots with PCIe Gen4 x4 interface 6 x PCIe Gen5 x16 expansion slots	
<b>Electrical</b>	100-240 VAC, 47-63 Hz IEC-320-C14 (server side) NEMA 5-15P (wall side) <small>*Other regions also available</small>	
<b>Backplane</b>	Tri-Mode 45Drives Backplane (U.3, SATA, SAS)	
<b>Number of Storage Drive Bays</b>	32	
<b>Maximum Raw Capacity</b>	243.2 TB (With 7.6TB SSDs)	
<b>ZFS RAID Options</b>	0, 1, 10, Z1, Z2, Z3	
<b>Networking (On-Board)</b>	2x 1/10 Gb/s	
<b>Networking (Add-Ons)</b>	1, 10, 25, 40, and 100GbE	
<b>Power</b>	1350W 1U Redundant PSU	
<b>Form Factor</b>	2U	
<b>HBA Card</b>	LSi 9600-16i Tri-Mode (NVMe, SATA, SAS)	
<b>Operating System</b>	Rocky Linux 9 /Ubuntu 22 + Houston UI (Others Available Upon Request)	
<b>Boot Drives</b>	2 x 480GB Enterprise SATA SSDs (Mirrored)	
<b>Expansion</b>	Ceph Cluster-Ready	
<b>Dimensions</b>	28.000"L x 17.125" W x 3.500"H	