45Drives ENTERPRISE

STORNADO E16 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.

Leveraging PCIe Gen5 and E1.S NVMe storage, the E16 is optimized for maximum throughput, delivering up to 224 GB/s read throughput and 96 GB/s write throughput. This makes it the ideal platform for AI pipelines, HPC, analytics, and other next-generation data-intensive workloads where keeping GPUs and compute resources fed with data is critical to performance.



HARDWARE

- Made in North America with 16g Steel
- 2U chassis height (Rails Included)
- 16 Front loading Hot-Swappable Drive Bays
- Accommodates 15mm E1.S NVMe Drives
- Up to 480TBs of raw storage capacity
- Direct-Wire Architecture
- Optimised E1.S compatible backplane
- Tool-less & Cadiless Drive Access
- Cableless, Bus Bar Backplane Power Delivery
- Latest Generation of AMD EPYC CPU
- 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

Rocky Linux · HOUSTON COMMAND CENTER · ZFS · veeam Ready Repository · ceph · SNAPSHIELD RANSOMWARE ACTIVATED FUSE™

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STORNADO NVME By 45Drives

E16



CPU	**Base** AMD EPYC 9455 48 Cores, 3.15 GHz 96 Threads	**Enhanced** AMD EPYC 9535 64 CORES, 2.4 GHz 128 Threads	**Turbo** AMD EPYC 9645 96 Cores, 2.3 GHz 192 Threads
CPU Architecture	64-bit		
Maximum Memory	Up to 2TB platform capacity		
Maximum RDIMM Capacity AMD)	RDIMM up to 128GB supported		
Total Memory Slots	8		
Motherboard Model	ASROCK TURIND8X-2T/500W		
PCI Slots (AMD)	7 x PCIe 5.0 x16 slots\ 1 x PCIe 5.0 x8 slot 4 x PCIe x16 to E1.S / MCIO adapters\ Each adapter supports 4 x E1.S PCIe Gen5 x4 NVMe drives		
Electrical	100-115Vac, 50-60Hz, 14A: 1200W output\ 115-127Vac, 50-60Hz, 14A: 1400W output\ 200-230Vac, 50-60Hz, 14A: 2500W output\ 230-240Vac, 50-60Hz, 14A: 2700W output\ 240Vdc, 12.5A: 2700W output *Other regions also available		
Backplane	E1.S		
Number of Storage Drive Bays	16		
Maximum Raw Capacity	480 TB		
ZFS RAID Options	0, 1, 10, Z1, Z2, Z3		
Networking (On-Board)	2x 1/10 Gb/s		
Networking (Add-Ons)	1, 10, 25, 40, 100, 200, 400GbE		
Power	2700W 2U Redundant PSU		
Form Factor	2U		
HBA Card	Drives are connected directly through PCIe bifurcation adapters		
Operating System	Rocky Linux 9 /Ubuntu 22 + Houston UI (Others Available Upon Request)		
Boot Drives	2x Micron PRO 7500 - 960GB U.3 15mm		
Expansion	Ceph Cluster-Ready		
Dimensions	29.318"L x 17.12" W x 3.408"H		
Operating Temperature	10°C to 40°C		
Operating Humidity	8% to 80% (non-condensing)		
Non-Operating Temperature	-40°C to 60°C		
Non-Operating Humidity	20% to 95% (non-condensing)		