



# 45Drives

## ENTERPRISE

### STORINATOR S45



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 S45 storage server showcases this approach, offering high-performance and capacity as a single server or as a module in a highly-available storage cluster.



#### HARDWARE

- Made in North America with 16g Steel
- 4U Rackmount Server (Rails Included)
- 45 Top Loading Hot-Swappable Drive Bays
- Up to 1.08 PB of raw storage capacity
- 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 Dual 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



# STORINATOR By 45Drives

## S45



<b>CPU (AMD 8004)</b>	<b>Base</b> AMD EPYC 8124P 16 Cores, 2.45 GHz 32 Threads	<b>Enhanced</b> AMD EPYC 8224P or 8324P 24 or 32 Cores, 2.55 or 2.65GHz 48 or 64 Threads	<b>Turbo</b> AMD EPYC 8534P 64 Cores, 2.3 GHz 128 Threads
<b>CPU (Intel Xeon 4th Gen)</b>	<b>Base</b> Silver 4410Y 12 Cores, 2 GHz 24 Threads	<b>Enhanced</b> Gold 5418Y 24 Cores, 2 GHz 48 Threads	<b>Turbo</b> Gold 6430Y 32 Cores, 2.1 GHz 64 Threads
<b>CPU Architecture</b>	64-bit		
<b>Maximum Memory</b>	1152GB (AMD) 2048GB (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 8 (Intel)		
<b>Motherboard Model</b>	ME03-CE0 (AMD) or MS03-6L0 (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>	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		
<b>Electrical</b>	100-240 VAC, 47-63 Hz IEC-320-C14 (server side) NEMA 5-15P (wall side) *Other regions also available		
<b>Backplane</b>	Direct Wire SATA SAS		
<b>Number of Storage Drive Bays</b>	45		
<b>Maximum Raw Capacity</b>	1.08 PB (With 24TB HDDs)		
<b>ZFS RAID Options</b>	0, 1, 10, Z1, Z2, Z3		
<b>ZFS Support Vdevs (NVMe)</b>	L2ARC, SLOG, Special Vdevs		
<b>Networking (On-Board)</b>	2x 1/10 Gb/s		
<b>Networking (Add-Ons)</b>	1, 10, 25, 40, and 100GbE		
<b>Power</b>	850W Non Modular ATX or 1400W 2U Redundant		
<b>Form Factor</b>	4U		
<b>HBA Card</b>	LSI 9305-16i		
<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>	31.5"L x 17.125" W x 7.000"H		
<b>Weight Without Drives</b>	65 LBS		
<b>Weight With Drives</b>	105 LBS		