



# 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.

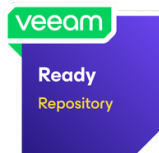


#### HARDWARE

- Made in North America with 16g Steel
- 4U Rackmount Server (Rails Included)
- 45 Top Loading Hot-Swappable Drive Bays
- Up to 1.35 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>Base</b>	<b>Enhanced</b>	<b>Turbo</b>
<b>CPU (AMD 8004)</b>	AMD EPYC 8124P 16 Cores, 2.45 GHz 32 Threads	AMD EPYC 8224P or 8324P 24 or 32 Cores, 2.55 or 2.65GHz 48 or 64 Threads	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>	1.35 PB (With 30TB 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		