



# 45Drives

## ENTERPRISE

### STORINATOR XL60

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 XL60 storage server showcases this approach, offering high-performance and capacity as a single server or as a module in a highly-available storage cluster.

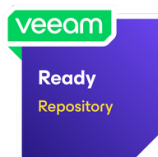


#### HARDWARE

- Made in North America with 16g Steel
- 4U Rackmount Server (Rails Included)
- 60 Top Loading Hot-Swappable Drive Bays
- Up to 1.8 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
- 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



# STORINATOR By 45Drives

## XL60



|                                       |                                                                                                                                                                                             |                                                                                                   |                                                                    |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>CPU (AMD 8004)</b>                 | <b>Base</b><br>AMD EPYC 8124P<br>16 Cores, 2.45 GHz<br>32 Threads                                                                                                                           | <b>Enhanced</b><br>AMD EPYC 8224P or 8324P<br>24 or 32 Cores, 2.55 or 2.65GHz<br>48 or 64 Threads | <b>Turbo</b><br>AMD EPYC 8534P<br>64 Cores, 2.3 GHz<br>128 Threads |
| <b>CPU (Intel Xeon 4th Gen)</b>       | <b>Base</b><br>Silver 4410Y<br>12 Cores, 2 GHz<br>24 Threads                                                                                                                                | <b>Enhanced</b><br>Gold 5418Y<br>24 Cores, 2 GHz<br>48 Threads                                    | <b>Turbo</b><br>Gold 6430Y<br>32 Cores, 2.1 GHz<br>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> | 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<br>1 x M.2 slot with PCIe Gen3 x 4 interface<br>3 x PCIe Gen5 x 16 expansion slots<br>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<br>2 x SATA 6Gb/s ports<br>1 x M.2 slot with PCIe Gen3 x4 interface<br>6 x PCIe Gen5 x 16 and x 8 expansion slots                                  |                                                                                                   |                                                                    |
| <b>Electrical</b>                     | 100-240 VAC, 47-63 Hz<br>IEC-320-C14 (server side)<br>NEMA 5-15P (wall side)<br>*Other regions also available                                                                               |                                                                                                   |                                                                    |
| <b>Backplane</b>                      | Direct Wire SATA SAS                                                                                                                                                                        |                                                                                                   |                                                                    |
| <b>Number of Storage Drive Bays</b>   | 60                                                                                                                                                                                          |                                                                                                   |                                                                    |
| <b>Maximum Raw Capacity</b>           | 1.8PB (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>                          | 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>                     | 37.500"L x 17.125" W x 7.000"H                                                                                                                                                              |                                                                                                   |                                                                    |
| <b>Weight Without Drives</b>          | 80 LBS                                                                                                                                                                                      |                                                                                                   |                                                                    |
| <b>Weight With Drives</b>             | 180 LBS                                                                                                                                                                                     |                                                                                                   |                                                                    |