



## THE PROXINATOR<sup>®</sup> VM16

### Virtualization and 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 risk associated with vendor lock-in. The Proxinator VM16 offers turn-key Proxmox Virtual Environment (VE) with integrated access to high speed storage and GPU.



#### HARDWARE

- Made in North America with 16g Steel
- 2U Rackmount Server (Rails Included)
- 16 Bay Tri-Mode Server (U.3 NVMe, SATA, SAS)
- Up to 121.6TB 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
- NVIDIA GPU
- Redundant Power Supply
- IPMI capable

#### SOFTWARE

- Preloaded with Proxmox VE
- Integrated ZFS & Ceph Storage
- Single Pane UI for VMs and Storage
- Proxmox VE Cluster Ready
- File & Block Storage
- SMB, NFS, iSCSI Protocols
- Proxmox Backup Server Ready
- Native Veeam Backup Integration
- Administrative Training Available



# THE PROXINATOR<sup>™</sup> By 45Drives

## VM16



| CPU (AMD 8004)                | Base<br>AMD EPYC 8224P<br>24 CORES, 2.55 GHz<br>MAX BOOST 3 GHz                                                                                                                             | Enhanced<br>AMD EPYC 8324P<br>32 CORES, 2.65GHz<br>MAX BOOST 3GHz | Turbo<br>AMD EPYC 8534P<br>64 Cores, 2.3 GHz<br>MAX BOOST 3.1 GHz |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| CPU (Intel Xeon 4th Gen)      | Base<br>2xSilver 4410Y<br>12 CORES, 2 GHz<br>MAX BOOST 2.8 GHz                                                                                                                              | Enhanced<br>2xGold 5418Y<br>24 CORES, 2 GHz<br>MAX BOOST 2.8GHz   | Turbo<br>2xGold 6430<br>32 Cores, 2.1 GHz<br>MAX BOOST 2.6 GHz    |
| CPU Architecture              | 64-bit                                                                                                                                                                                      |                                                                   |                                                                   |
| Maximum Memory                | 1152GB (AMD) 4096GB (Intel)                                                                                                                                                                 |                                                                   |                                                                   |
| Maximum RDIMM Capacity Intel) | RDIMM up to 96GB supported<br>3DS RDIMM up to 256GB supported                                                                                                                               |                                                                   |                                                                   |
| Maximum RDIMM Capacity (AMD)  | RDIMM up to 96GB supported                                                                                                                                                                  |                                                                   |                                                                   |
| Total Memory Slots            | 12 (AMD) and 16 (Intel)                                                                                                                                                                     |                                                                   |                                                                   |
| Motherboard Model             | ME03-CE0 (AMD) or MS73-HB0/2 (Intel)                                                                                                                                                        |                                                                   |                                                                   |
| PCI Slots (AMD)               | 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 |                                                                   |                                                                   |
| PCI Slots (Intel)             | 3 x SlimSAS connectors for 12 x SATA 6Gb/s<br>2 x SATA 6Gb/s ports<br>2 x M.2 slots with PCIe Gen4 x4 interface<br>6 x PCIe Gen5 x16 expansion slots                                        |                                                                   |                                                                   |
| Electrical                    | 100-240 VAC, 47-63 Hz<br>IEC-320-C14 (server side)<br>NEMA 5-15P (wall side)<br>*Other regions also available                                                                               |                                                                   |                                                                   |
| Backplane                     | Tri-Mode 45Drives Backplane (U.3, SATA, SAS)                                                                                                                                                |                                                                   |                                                                   |
| Number of Storage Drive Bays  | 16                                                                                                                                                                                          |                                                                   |                                                                   |
| Maximum Raw Capacity          | 121.6TB (Using 7.6 TB 7mm U.3 NVMe SDDs)                                                                                                                                                    |                                                                   |                                                                   |
| ZFS RAID Options              | 0, 1, 10, Z1, Z2, Z3                                                                                                                                                                        |                                                                   |                                                                   |
| ZFS Support Vdevs (NVMe)      | L2ARC, SLOG, Special Vdevs (Optional)                                                                                                                                                       |                                                                   |                                                                   |
| Networking (On-Board)         | 2x 1/10 Gb/s                                                                                                                                                                                |                                                                   |                                                                   |
| Networking (Add-Ons)          | 1, 10, 25, 40, and 100GbE                                                                                                                                                                   |                                                                   |                                                                   |
| Power                         | 1350W 1U Redundant PSU                                                                                                                                                                      |                                                                   |                                                                   |
| Form Factor                   | 2U                                                                                                                                                                                          |                                                                   |                                                                   |
| HBA Card                      | LSi 9600-16i Tri-Mode (NVMe, SATA, SAS)                                                                                                                                                     |                                                                   |                                                                   |
| Operating System              | Proxmox Virtual Environment                                                                                                                                                                 |                                                                   |                                                                   |
| Boot Drives                   | 2 x 480GB Enterprise SATA SSDs (Mirrored)                                                                                                                                                   |                                                                   |                                                                   |
| Expansion                     | Ceph Cluster-Ready                                                                                                                                                                          |                                                                   |                                                                   |
| Dimensions                    | 28.000"L x 17.120" W x 3.500"H                                                                                                                                                              |                                                                   |                                                                   |