

# NexaVM S120 Series

Enterprise-Optimized Rack Server Platform



The NexaVM S120 Series is a high-performance enterprise server platform engineered for virtualization, private cloud, storage, backup, and business-critical workloads. Built with Intel Xeon and AMD EPYC processor options, the S120 delivers reliability, scalability, and enterprise-grade availability for the modern data center.

## Key Highlights

- 2U rack-mount enterprise platform
- Up to 96 CPU cores per node configuration
- Up to 16 DDR4 memory slots (S120S: 8 slots • S120: 16 slots)
- 12 drive bays, expandable up to 12 NVMe SSDs (SAS/SATA by default)
- RAID 0/1/5/6/10 and JBOD support (HBA by default; RAID card w/ or w/o battery optional)
- Dual hot-swappable redundant power supplies
- Integrated IPMI remote management
- Enterprise validated and optimized platform

## Available Models

More configurations can be customized upon request.

| Model / SKU         | Processor                    | Cores / Threads |
|---------------------|------------------------------|-----------------|
| <b>S120S-I18-G2</b> | 1 × Intel Xeon Gold 6240     | 18C / 36T       |
| <b>S120-I18-G2</b>  | 2 × Intel Xeon Gold 6240     | 18C / 36T       |
| <b>S120-I32-G3</b>  | 2 × Intel Xeon Platinum 6338 | 32C / 64T       |
| <b>S120-A48-G2</b>  | 2 × AMD EPYC 7K62            | 48C / 96T       |

## Networking & Expansion

- Default networking: 2 × 10GbE SFP+ and 2 × 1GbE RJ45
- Optional 1GbE, 10GbE, and 25GbE network adapters
- 4 PCIe expansion slots (customizable for more)
- Soft RAID1 OS disk protection
- Rear USB 3.0 and USB 2.0 connectivity

## Physical Specifications

|                              |                                           |
|------------------------------|-------------------------------------------|
| <b>Dimensions</b>            | 680 × 438 × 88 mm (2U)                    |
| <b>Weight</b>                | 35 kg                                     |
| <b>Form Factor</b>           | Standard 19-inch Rack Mount               |
| <b>Power Supply</b>          | Dual Redundant Hot-Swap PSU (550W / 800W) |
| <b>Operating Temperature</b> | 10–35°C                                   |

## Why Choose NexaVM S120?

The S120 Series is engineered for virtualization clusters, cloud infrastructure, storage services, backup repositories, and enterprise applications. Every server configuration undergoes validation and testing to ensure dependable operation in production environments.

**NexaVM — Building Reliable Enterprise Infrastructure**

## Technical Specification

| Specification                 | S120S-I18-G2                            | S120-I18-G2                             | S120-I32-G3                                    | S120-A48-G2                        |
|-------------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------------|------------------------------------|
| SKU                           | S120S-I18-G2                            | S120-I18-G2                             | S120-I32-G3                                    | S120-A48-G2                        |
| CPU                           | Intel Xeon Gold 6240<br>18C/36T, 2.6GHz | Intel Xeon Gold 6240<br>18C/36T, 2.6GHz | Intel Xeon Platinum<br>6338<br>32C/64T, 2.0GHz | AMD EPYC 7K62<br>48C/96T, 2.6GHz   |
| No. of CPUs                   | 1                                       | 2                                       | 2                                              | 2                                  |
| Supported RAM                 | 32/64GB DDR4                            | 32/64GB DDR4                            | 32/64GB DDR4                                   | 32/64GB DDR4                       |
| RAM Slots                     | 8                                       | 16                                      | 16                                             | 16                                 |
| OS Disk (Soft RAID1)          | 2                                       | 2                                       | 2                                              | 2                                  |
| HBA (default) / RAID          | SAS9361-8i-1G /<br>SAS9300-8i           | SAS9361-8i-1G /<br>SAS9300-8i           | SAS9361-8i-1G /<br>SAS9300-8i                  | SAS9361-8i-1G /<br>SAS9300-8i      |
| RAID Modes (if configured)    | 0/1/5/6/10 & JBOD                       | 0/1/5/6/10 & JBOD                       | 0/1/5/6/10 & JBOD                              | 0/1/5/6/10 & JBOD                  |
| Disk Slots                    | 12                                      | 12                                      | 12                                             | 12                                 |
| Default NIC                   | 2×10GE SFP+ /<br>2×1GE RJ45             | 2×10GE SFP+ /<br>2×1GE RJ45             | 2×10GE SFP+ /<br>2×1GE RJ45                    | 2×10GE SFP+ /<br>2×1GE RJ45        |
| Optional NIC                  | 1GbE-2 / 10GbE-2 /<br>25GbE-2           | 1GbE-2 / 10GbE-2 /<br>25GbE-2           | 1GbE-2 / 10GbE-2 /<br>25GbE-2                  | 1GbE-2 / 10GbE-2 /<br>25GbE-2      |
| USB                           | Rear USB, 2×USB3.0<br>+ 2×USB2.0        | Rear USB, 2×USB3.0<br>+ 2×USB2.0        | Rear USB, 2×USB3.0<br>+ 2×USB2.0               | Rear USB, 2×USB3.0<br>+ 2×USB2.0   |
| Dimensions (19" rack)         | 680(D)×438(W)×88(H)<br>mm               | 680(D)×438(W)×88(H)<br>mm               | 680(D)×438(W)×88(H)<br>mm                      | 680(D)×438(W)×88(H)<br>mm          |
| Gross Weight                  | 35 kg                                   | 35 kg                                   | 35 kg                                          | 35 kg                              |
| Total PCIe Slots              | 4 (customizable for<br>more)            | 4 (customizable for<br>more)            | 4 (customizable for<br>more)                   | 4 (customizable for<br>more)       |
| Max NVMe Slots                | 12 (customizable, 0 by<br>default)      | 12 (customizable, 0 by<br>default)      | 12 (customizable, 0 by<br>default)             | 12 (customizable, 0 by<br>default) |
| Power Specs                   | 550W dual                               | 550W dual                               | 800W dual                                      | 800W dual                          |
| Power Supply Hot-Swap         | Yes                                     | Yes                                     | Yes                                            | Yes                                |
| Working Power (Typ. /<br>Max) | 300W / 550W                             | 450W / 550W                             | 600W / 800W                                    | 600W / 800W                        |
| Fans                          | 4                                       | 4                                       | 4                                              | 4                                  |
| VGA                           | 1                                       | 1                                       | 1                                              | 1                                  |
| Serial Port                   | 1                                       | 1                                       | 1                                              | 1                                  |
| IPMI                          | 1GbE                                    | 1GbE                                    | 1GbE                                           | 1GbE                               |
| Working Temperature           | 10–35°C                                 | 10–35°C                                 | 10–35°C                                        | 10–35°C                            |
| Working Humidity              | 35%–80% RH                              | 35%–80% RH                              | 35%–80% RH                                     | 35%–80% RH                         |

*Note: CPUs and RAM modules are certified. Every complete server is thoroughly tested by the R&D team; product quality is assured and optimized for enterprise deployment.*