

Lenovo ThinkAgile VX2320, VX3320, VX7320-N 1U Appliances and VX 1U Certified Node (Intel Xeon SP Gen 2)

Product Guide

The Lenovo ThinkAgile VX2320, VX3320, VX7320-N Appliances and VX 1U Certified Node are 2-socket 1U systems that feature the 2nd Generation Intel Xeon Scalable processors. These systems are based on the ThinkSystem SR630 with up to 28 cores per processor, up to 3 TB of TruDDR4 memory with up to 2933 MHz memory speeds, and an extensive selection of internal storage and networking options. VMware offers a unique, software-defined approach to hyperconvergence, leveraging the hypervisor to deliver compute, storage and management in a tightly integrated software stack.

The 1U systems are available either as an appliance or certified node:

- VX2320 for workloads used by small-to-medium businesses
- VX3320 for compute-heavy workloads
- VX7320-N for high performance workloads benefiting from all-NVMe storage
- VX 1U Certified Node

Suggested uses: Inference, virtualization, VDI, HPC, Hyperconverged infrastructure



Figure 1. Lenovo ThinkAgile VX with 3.5-inch drive bays

Did you know?

The ThinkAgile VX2320, VX3320, VX7320-N Appliances and VX 1U Certified Node are built on the Lenovo ThinkSystem SR630 server that features enterprise-class reliability, management, and security.

The VX2320, VX3320, VX7320-N Appliances offer ThinkAgile Advantage Single Point of Support for quick 24/7 problem reporting and resolution.

Key features

The ThinkAgile VX2320, VX3320, VX7320-N Appliances and VX 1U Certified Node offer the following key features:

- Factory-integrated, pre-configured ready-to-go appliances built on proven and reliable Lenovo ThinkSystem servers that provide compute power for a variety of workloads and applications and powered by industry-leading hyperconverged infrastructure software from VMware.
- Provide quick and convenient path to implement a hyperconverged solution powered by VMware vSAN with "one stop shop" and a single point of contact provided by Lenovo for purchasing, deploying, and supporting the solution.
- Meet various workload demands with cost-efficient hybrid or performance-optimized all-flash storage configurations.
- Deliver fully validated and integrated hardware and firmware that is certified with VMware software.
- Appliances include Lenovo ThinkAgile Advantage Single Point of Support for quick 24/7 problem reporting and resolution.
- Offer Lenovo deployment services to get customers up and running quickly.

The VMware software running on ThinkAgile VX2320, VX3320, VX7320-N Appliances and VX 1U Certified Node delivers the following key features:

- Distributed architecture that allows "pay-as-you-grow", non-disruptive scaling by adding new nodes to the cluster (scale-out) to increase capacity and performance.
- Advanced capacity management, including deduplication, compression, and erasure coding (RAID 5/6), which helps deliver greater storage utilization with dramatically lower storage capacity and costs.
- Automation of VM storage provisioning and control of storage service levels (capacity, performance, availability) with VM-centric policies to load balance storage resources.
- Native HCI security solution with two-factor authentication (SecurID and CAC) and data-at-rest encryption that does not require self-encrypting drives (SEDs).
- Stretched cluster with local and site failure protection between two geographically dispersed sites for higher level of availability with near zero downtime.
- Centralized management with provisioning, administering, and monitoring virtual resources across multiple hosts and clusters from a centralized interface.
- Rapid workload provisioning, simplified data center operations, increased business efficiency, and decreased CAPEX and OPEX costs.
- VM and data protection with agent-less, image-level virtual machine backups and application-aware protection for business-critical Microsoft applications (Exchange, SQL Server, SharePoint) along with WAN-efficient, encrypted backup data replication.
- Reduced unplanned downtime and virtually eliminated planned downtime for server and storage maintenance with live workload migration, high availability, and fault tolerance.
- Enhanced application performance and availability with resource management, load balancing, and access prioritization.
- Intelligent operations management and automation to proactively monitor and manage compute, storage, and networking resources, identify performance bottlenecks, and re-balance workloads by leveraging predictive analytics.
- Capacity planning and optimization guidance to address future needs with performance trends, projections and extended forecasts.
- Managing remote offices and branch offices with rapid provisioning of servers through virtualization, minimization of host configuration drift, and enhanced visibility into regulatory compliance, across multiple sites.

Components and connectors

The ThinkAgile VX2320, VX3320, VX7320-N Appliances and VX 1U Certified Node are based on the ThinkSystem SR630 server.

The following figure shows the front view of the VX2320 Appliance and VX 1U Certified Node with 4x 3.5-inch front drive bays.

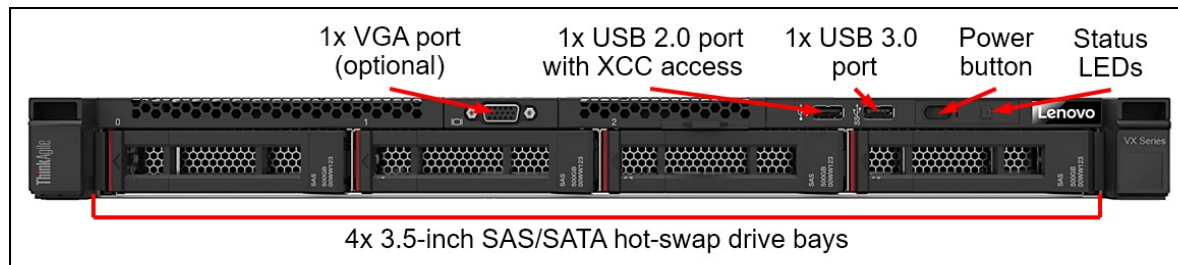


Figure 2. Front view with 3.5-inch drive bays

The following figure shows the front view of the VX3320 Appliance, VX7320-N Appliance and VX 1U Certified Node with 10x 2.5-inch drive bays.

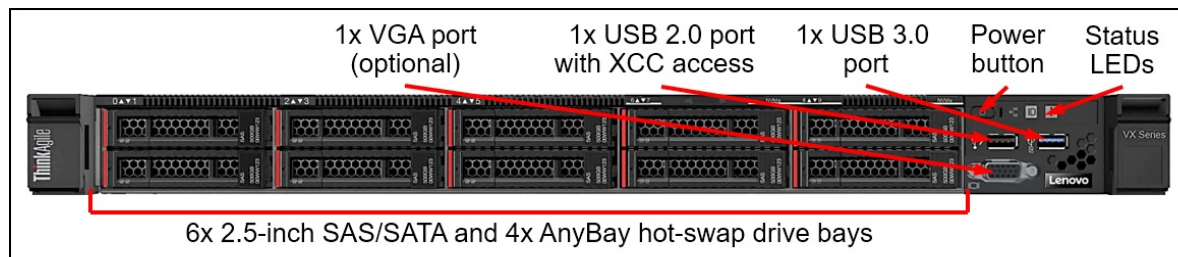


Figure 3. Front view with 2.5-inch drive bays

The following figure shows the rear view of all VX systems. The VX 1U Certified Node optionally supports 2x 2.5-inch drive bays in the place of 2 of the PCIe slots.

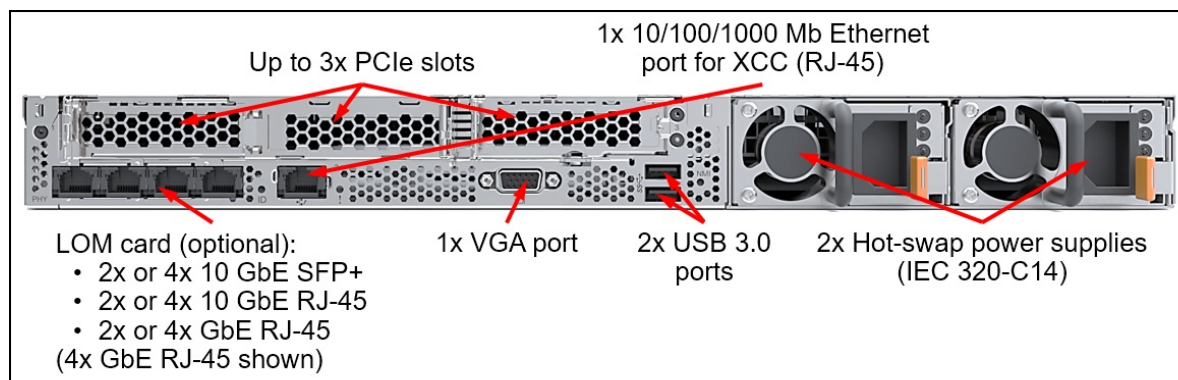


Figure 4. Rear view

Standard specifications

The ThinkAgile VX2320, VX3320, VX7320-N Appliances and VX 1U Certified Node are based on the ThinkSystem SR630 server.

The following table provides an overview comparison between the VX systems.

Table 1. Comparison of features

| | VX2320 | VX3320 | VX7320-N | VX 1U |
|---------------------|--|---|---|--|
| VX offering type | Appliance | Appliance | Appliance | Certified Node |
| Target workloads | SMB | Compute heavy | High performance | Compute heavy |
| Base MTM | 7Y93CTO2WW | 7Y93CTO1WW | 7Y93CTO3WW | 7Y93CTO4WW |
| Form Factor | 1U | 1U | 1U | 1U |
| Base platform | SR630 | SR630 | SR630 | SR630 |
| CPU | 1x or 2x Intel Xeon SP Gen 2 | 1x or 2x Intel Xeon SP Gen 2 | 2x Intel Xeon SP Gen 2 | 1x or 2x Intel Xeon SP Gen 2 |
| Memory | 24x DDR4 2933 MHz (3TB max) | 24x DDR4 2933 MHz (3TB max) | 24x DDR4 2933 MHz (3TB max) | 24x DDR4 2933 MHz (3TB max) |
| Drive Bays | <ul style="list-style-type: none"> 4x 3.5" SAS/SATA (front) | <ul style="list-style-type: none"> 6x 2.5" SAS/SATA & 4x 2.5" AnyBay (front) | <ul style="list-style-type: none"> 10x 2.5" NVMe (front) | <ul style="list-style-type: none"> 4x 3.5" SAS/SATA (front) + 2x 2.5" SAS/SATA (rear) 4x 3.5" AnyBay (front) 6x 2.5" SAS/SATA & 4x 2.5" AnyBay (front) + 2x 2.5" SAS/SATA (rear) 10x 2.5" NVMe (front) |
| Drive Configuration | All Flash Hybrid | All Flash Hybrid | All Flash | All Flash Hybrid |
| HBA | 430-8i HBA | 430-16i HBA | No support* | 430-8i HBA 430-16i HBA |
| Boot drives | 2x M.2 SATA | 2x M.2 SATA | 2x M.2 SATA | 2x M.2 SATA |
| LOM networking | 1x LOM adapter, 1Gb or 10Gb | 1x LOM adapter, 10Gb | 1x LOM adapter, 10Gb | 1x LOM adapter, 1Gb or 10Gb |
| PCIe networking | Up to 3x adapters 10Gb, 25Gb | Up to 3x adapters 10Gb, 25Gb | Up to 3x adapters 10Gb, 25Gb | Up to 3x adapters 1Gb, 10Gb, 25Gb, 40Gb, 100Gb |
| GPUs | No support | No support | No support | Up to 3x GPUs |
| Hypervisor | VMware ESXi | VMware ESXi | VMware ESXi | VMware ESXi |

* NVMe ports and switch adapters are used instead of a SAS HBA

The following table lists the standard specifications.

Table 2. Standard specifications

| Components | Specification |
|---------------------|--|
| Machine types | 7Y93 - 3 year warranty |
| Form factor | 1U rack. |
| Processor | One or two 2nd Gen Intel Xeon Scalable processors (formerly codenamed "Cascade Lake") |
| Chipset | Intel C624 chipset, part of the platform codenamed "Purley" |
| Memory | 24 DIMM slots (up to 12 DIMMs per processor; six memory channels per processor with two DIMMs per channel) with support for RDIMMs and 3DS RDIMM at up to 2933 MHz. |
| Persistent memory | VX 1U Certified Node support up to 12x TruDDR4 2666 MHz DCPMMs in the DIMM slots. |
| Memory maximum | Up to 3 TB with 128 GB 3DS RDIMMs and two processors. Memory DIMMs and persistent memory modules (Memory Mode): Up to 6 TB with 12x 512 GB DCPMMs (Up to 3 TB per processor). Note: Systems with more than 1 TB of memory capacity per socket require processors with an L suffix. |
| Memory protection | Error correction code (ECC), Single Device Data Correction (SDDC; for x4-based memory DIMMs), Adaptive Double Device Data Correction (ADDDC; for x4-based memory DIMMs, requires Intel Xeon Gold or Platinum processors), patrol scrubbing, and demand scrubbing. |
| Hot-swap drive bays | <ul style="list-style-type: none"> • VX2320: 4x 3.5" SAS/SATA (front) • VX3320: 6x 2.5" SAS/SATA & 4x 2.5" AnyBay (front) • VX7320-N: 10x 2.5" NVMe (front) • VX 1U Certified Node: <ul style="list-style-type: none"> ◦ 4x 3.5" SAS/SATA (front) + 2x 2.5" SAS/SATA (rear) ◦ 4x 3.5" AnyBay (front) ◦ 6x 2.5" SAS/SATA & 4x 2.5" AnyBay (front) + 2x 2.5" SAS/SATA (rear) ◦ 10x 2.5" NVMe (front) |
| Internal storage | <ul style="list-style-type: none"> • 1 drive group: 1 cache drive + 2-7 capacity drives • 2 drive groups: 1 cache drive + 2-6 capacity drives in each group <p>Note: The quantity of the capacity drives in each drive group must be the same.</p> |
| Storage controller | <ul style="list-style-type: none"> • 12 Gbps SAS/6 Gbps SATA non-RAID: <ul style="list-style-type: none"> ◦ 430-8i HBA (VX2320 and VX 1U Certified Node) ◦ 430-16i HBA (VX3320 and VX 1U Certified Node) • NVMe PCIe non-RAID (VX7320-N and VX 1U Certified Node) <ul style="list-style-type: none"> ◦ Onboard NVMe ◦ 810-4P NVMe Switch Adapter ◦ 1610-4P NVMe Switch Adapter |
| Network interfaces | Onboard LOM slot for an adapter with up to 4x 1Gb or 10 Gb Ethernet ports Additional network adapters in PCIe slots |
| PCI Expansion slots | Up to four slots. Slot 4 is the fixed slot on the system planar, and the remaining slots depend on the riser cards installed. The slots are as follows: <ul style="list-style-type: none"> • Slot 1: PCIe 3.0 x8, ML2 x8, or ML2 x16; low profile (for a network adapter) • Slot 2: PCIe 3.0 x16 or x8; low profile or full-height, half-length (for a network adapter) • Slot 3: PCIe 3.0 x16; low profile (for a network adapter) • Slot 4: PCIe 3.0 x8 (for an internal storage controller) |

| Components | Specification |
|----------------------|---|
| GPU support | VX 1U Certified Node supports up to 3x single-wide GPUs |
| Boot drives | 2x M.2 non-hot-swap SSDs (RAID-1) |
| Ports | <ul style="list-style-type: none"> • Front: 1x USB 2.0 port with XClarity Controller access, 1x USB 3.0 port, 1x VGA port (optional). • Rear: 2x USB 3.0 ports, 1x VGA port, 1x RJ-45 10/100/1000 Mb Ethernet port for systems management. |
| Cooling | Five (one processor) or seven (two processors) hot-swap system fans with N+1 redundancy. |
| Power supply | One or two redundant hot-swap 750 W or 1100 W (100 - 240 V) High Efficiency Platinum power supplies, or 750 W (200 - 240 V) High Efficiency Titanium power supplies. |
| Video | G200 graphics with 16 MB memory with 2D hardware accelerator, integrated into the XClarity Controller. Maximum resolution is 1920x1200 32bpp at 60Hz. |
| Hot-swap parts | Drives, power supplies, and fans. |
| Systems management | Lenovo XClarity Controller (XCC) Enterprise (Pilot 4 chip), proactive platform alerts, light path diagnostics, Lenovo XClarity Administrator with Integrator for VMware vCenter, Lenovo XClarity Energy Manager (optional). |
| Security features | Power-on password, administrator's password, secure firmware updates, Trusted Platform Module (TPM) 1.2 or 2.0 (configurable UEFI setting). Optional lockable front bezel. |
| Software | <p>Software licenses that can be purchased from Lenovo or provided by the customer:</p> <ul style="list-style-type: none"> • VMware vSAN: Standard, Advanced, Enterprise, Enterprise Plus, ROBO or Desktop • VMware vSphere: Standard, Enterprise Plus or ROBO • HCI Kit: Essentials, Standard, Advanced, Enterprise or ROBO • VMware Horizon: Standard, Advanced or Enterprise • VMware Cloud Foundation (VCF): Basic, Standard, Advanced, Enterprise or for VDI • VMware vCenter Server: Foundation or Standard |
| Hypervisors | VMware ESXi. See Operating system support section for details. |
| Warranty and support | Three- or five-year customer-replaceable unit and onsite limited hardware warranty with ThinkAgile Advantage Support and selectable service levels: 9x5 next business day (NBD) parts delivered, 9x5 NBD onsite response, 24x7 coverage with 2-hour or 4-hour onsite response, or 6-hour or 24-hour committed repair (select areas). Also available are YourDrive YourData, Premier Support, and Enterprise Software Support. |
| Software maintenance | One- (PRC only), three-, or five-year software support and subscription (matches the duration of the selected warranty period). |
| Dimensions | Width: 435 mm (17.1 in.), height: 43 mm (1.7 in.), depth: 750 mm (29.5 in.). |
| Weight | Minimum configuration: 11.9 kg (26.2 lb), maximum: 18.8 kg (41.4 lb) |

Models

Factory-integrated models of the ThinkAgile VX Series Appliances are configured by using the Lenovo Data Center Solution Configurator (DCSC), <http://dcsc.lenovo.com>.

During the configuration process, you are selecting one of the Configure-to-Order (CTO) base models first, and then you are adding components (processors, memory, drives, and network adapters) to the selected model.

Note: You are required to engage a Lenovo representative in the project that includes the ThinkAgile VX Series Appliances. ThinkAgile VX certified nodes do not have this requirement.

The following table lists the CTO base models.

Table 3. CTO base models

| Machine Type/Model | Description |
|--------------------|---------------------------------|
| 7Y93CTO2WW | ThinkAgile VX2320 Appliance |
| 7Y93CTO1WW | ThinkAgile VX3320 Appliance |
| 7Y93CTO3WW | ThinkAgile VX7320-N Appliance |
| 7Y93CTO4WW | ThinkAgile VX 1U Certified Node |

Models of the VX systems are defined based on whether the systems have 10x 2.5-inch drive bays at the front (called the 2.5-inch chassis) or whether they have 4x 3.5-inch drive bays at the front (called the 3.5-inch chassis). For models, the feature codes for these chassis bases are as listed in the following table.

Table 4. Chassis base feature codes

| Feature | Description | Maximum supported | | | |
|---------|--------------------------------------|-------------------|--------|----------|-------|
| | | VX2320 | VX3320 | VX7320-N | VX 1U |
| B1DK | ThinkAgile VX 1U 2.5" 10 Bay Chassis | No | 1 | 1 | 1 |
| B1DL | ThinkAgile VX 1U 3.5" 4 Bay Chassis | 1 | No | No | 1 |

Comparison with the ThinkSystem SR630

The ThinkAgile VX2320, VX3320, VX7320-N Appliances and VX 1U Certified Node are based on the ThinkSystem SR630 server, however there are key differences:

- No onboard SATA controller support
- No RAID adapter support
- No SATA HDDs
- No EDSFF drives support
- No SED drive support
- No Fibre Channel support
- No InfiniBand support
- Drives are categorized as Cache or Capacity drives and are formed as disk groups (up to 2 disk groups)

For details about the ThinkSystem SR630, see the SR630 product guide:

<https://lenovopress.com/lp1049-thinksystem-sr630-server>

To verify what specific hardware components are supported with the VX2320, VX3320, VX7320-N, and 1U Certified Node, see the DCSC configurator:

<https://dcsc.lenovo.com>

Processors

The VX2320, VX3320, VX7320-N, and 1U Certified Node systems support the following processors.

For details about these options, including configuration rules, see the SR630 product guide:

<https://lenovopress.com/lp1049-thinksystem-sr630-server#processors>

Table 5. Processor choices

| Part number | Feature | Description | Maximum supported | | | |
|------------------------------|---------|---|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| Intel Xeon Bronze processors | | | | | | |
| 4XG7A37939 | B4HU | Intel Xeon Bronze 3204 6C 85W 1.9GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37990 | B7N3 | Intel Xeon Bronze 3206R 8C 85W 1.9GHz Processor | 2 | 2 | 2 | 2 |
| Intel Xeon Silver processors | | | | | | |
| 4XG7A37936 | B4HT | Intel Xeon Silver 4208 8C 85W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37933 | B4HS | Intel Xeon Silver 4210 10C 85W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37988 | B7N5 | Intel Xeon Silver 4210R 10C 100W 2.4GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63300 | BAZT | Intel Xeon Silver 4210T 10C 95W 2.3GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37930 | B4HR | Intel Xeon Silver 4214 12C 85W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37987 | B7N6 | Intel Xeon Silver 4214R 12C 100W 2.4GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37942 | B4NW | Intel Xeon Silver 4214Y 12/10/8C 85W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37927 | B4HQ | Intel Xeon Silver 4215 8C 85W 2.5GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63298 | BAZU | Intel Xeon Silver 4215R 8C 130W 3.2GHz Processor | 2 | 2 | 2 | 2 |

| Part number | Feature | Description | Maximum supported | | | |
|-----------------------------------|---------|--|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| 4XG7A37924 | B4HP | Intel Xeon Silver 4216 16C 100W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| Intel Xeon Gold processors | | | | | | |
| 4XG7A37917 | B4HN | Intel Xeon Gold 5215 10C 85W 2.5GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37911 | B4P9 | Intel Xeon Gold 5215L 10C 85W 2.5GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37920 | B4HM | Intel Xeon Gold 5217 8C 115W 3.0GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37896 | B4HL | Intel Xeon Gold 5218 16C 125W 2.3GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37959 | B6BS | Intel Xeon Gold 5218B 16C 125W 2.3GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63296 | BAZS | Intel Xeon Gold 5218R 20C 125W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37966 | B4P3 | Intel Xeon Gold 5218T 16C 105W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37893 | B4HK | Intel Xeon Gold 5220 18C 125W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37984 | B7N9 | Intel Xeon Gold 5220R 24C 150W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A38018 | B6CW | Intel Xeon Gold 5220S 18C 125W 2.7GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15809 | B6CQ | Intel Xeon Gold 5220T 18C 105W 1.9GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37952 | B5S1 | Intel Xeon Gold 5222 4C 105W 3.8GHz Processor | 2 | 2 | 2 | 2 |
| CTO only | BAZV | Intel Xeon Gold 6208U 16C 150W 2.9GHz Processor | 1 | 1 | 1 | 1 |
| 4XG7A38022 | B6CV | Intel Xeon Gold 6222V 20C 115W 1.8GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A38020 | B6CL | Intel Xeon Gold 6226 12C 125W 2.7GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63292 | BAZW | Intel Xeon Gold 6226R 16C 150W 2.9GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37890 | B4HJ | Intel Xeon Gold 6230 20C 125W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15720 | B5RY | Intel Xeon Gold 6230N 20C 125W 2.3GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63290 | BAZX | Intel Xeon Gold 6230R 26C 150W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15808 | B6CP | Intel Xeon Gold 6230T 20C 125W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A38000 | B6CK | Intel Xeon Gold 6234 8C 130W 3.3GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A38024 | B6CJ | Intel Xeon Gold 6238 22C 140W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A38002 | B6CR | Intel Xeon Gold 6238L 22C 140W 2.1GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63288 | BAZL | Intel Xeon Gold 6238R 28C 165W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37884 | B4HH | Intel Xeon Gold 6240 18C 150W 2.6GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A38014 | B6CS | Intel Xeon Gold 6240L 18C 150W 2.6GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63286 | BAZM | Intel Xeon Gold 6240R 24C 165W 2.4GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37904 | B4NV | Intel Xeon Gold 6240Y 18/14/8C 150W 2.6GHz Processor | No | 2 | 2 | 2 |
| 4XG7A37887 | B4HG | Intel Xeon Gold 6242 16C 150W 2.8GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63284 | BAZN | Intel Xeon Gold 6242R 20C 205W 3.1GHz Processor | No | 2 | 2 | 2 |
| 4XG7A15875 | B4HF | Intel Xeon Gold 6244 8C 150W 3.6GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63282 | BAZP | Intel Xeon Gold 6246R 16C 205W 3.4GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15893 | B4HE | Intel Xeon Gold 6248 20C 150W 2.5GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A63280 | BAZQ | Intel Xeon Gold 6248R 24C 205W 3.0GHz Processor | No | 2 | 2 | 2 |
| 4XG7A15890 | B4HC | Intel Xeon Gold 6252 24C 150W 2.1GHz Processor | 2 | 2 | 2 | 2 |

| Part number | Feature | Description | Maximum supported | | | |
|---------------------------------------|---------|---|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| 4XG7A15812 | B6CT | Intel Xeon Gold 6252N 24C 150W 2.3GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15873 | B4HD | Intel Xeon Gold 6254 18C 200W 3.1GHz Processor | No | 2 | 2 | 2 |
| 4XG7A63278 | BAZR | Intel Xeon Gold 6258R 28C 205W 2.7GHz Processor | No | 2 | 2 | 2 |
| 4XG7A38009 | B6CU | Intel Xeon Gold 6262V 24C 135W 1.9GHz Processor | 2 | 2 | 2 | 2 |
| Intel Xeon Platinum processors | | | | | | |
| 4XG7A37899 | B5RZ | Intel Xeon Platinum 8253 16C 125W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37948 | B5S2 | Intel Xeon Platinum 8256 4C 105W 3.8GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15888 | B4HB | Intel Xeon Platinum 8260 24C 165W 2.4GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15886 | B4P7 | Intel Xeon Platinum 8260L 24C 165W 2.4GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A37902 | B4NU | Intel Xeon Platinum 8260Y 24/20/16C 165W 2.4GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15871 | B4HA | Intel Xeon Platinum 8268 24C 205W 2.9GHz Processor | No | 2 | 2 | 2 |
| 4XG7A15869 | B4H9 | Intel Xeon Platinum 8270 26C 205W 2.7GHz Processor | No | 2 | 2 | 2 |
| 4XG7A15882 | B4H8 | Intel Xeon Platinum 8276 28C 165W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15878 | B4P6 | Intel Xeon Platinum 8276L 28C 165W 2.2GHz Processor | 2 | 2 | 2 | 2 |
| 4XG7A15867 | B4H7 | Intel Xeon Platinum 8280 28C 205W 2.7GHz Processor | No | 2 | 2 | 2 |
| 4XG7A15863 | B4P5 | Intel Xeon Platinum 8280L 28C 205W 2.7GHz Processor | No | 2 | 2 | 2 |

Memory

The VX2320, VX3320, VX7320-N, and 1U Certified Node systems support the following memory options.

For details about these options, including configuration rules, see the SR630 product guide:

<https://lenovopress.com/lp1049-thinksystem-sr630-server#memory-options>

Table 6. Memory options

| Part number | Feature | Description | Maximum supported | | | |
|------------------------------------|---------|--|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| RDIMMs - 2933 MHz Performance+ | | | | | | |
| 4X77A12184 | B5N6 | ThinkSystem 16GB TruDDR4 Performance+ 2933MHz (2Rx8 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| 4X77A12185 | B5N7 | ThinkSystem 32GB TruDDR4 Performance+ 2933MHz (2Rx4 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| 4X77A12186 | B5N8 | ThinkSystem 64GB TruDDR4 Performance+ 2933MHz (2Rx4 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| RDIMMs - 2933 MHz | | | | | | |
| 4ZC7A08706 | B4H1 | ThinkSystem 8GB TruDDR4 2933MHz (1Rx8 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| 4ZC7A08707 | B4LY | ThinkSystem 16GB TruDDR4 2933 MHz (1Rx4 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| 4ZC7A08708 | B4H2 | ThinkSystem 16GB TruDDR4 2933MHz (2Rx8 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| 4ZC7A08709 | B4H3 | ThinkSystem 32GB TruDDR4 2933MHz (2Rx4 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| 4ZC7A08710 | B4H4 | ThinkSystem 64GB TruDDR4 2933MHz (2Rx4 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| RDIMMs - 2666 MHz | | | | | | |
| 7X77A01303 | AUNC | ThinkSystem 16GB TruDDR4 2666 MHz (2Rx8 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| 7X77A01304 | AUND | ThinkSystem 32GB TruDDR4 2666 MHz (2Rx4 1.2V) RDIMM | 24 | 24 | 24 | 24 |
| 3DS RDIMMs - 2933 MHz Performance+ | | | | | | |
| 4X77A12187 | B5N9 | ThinkSystem 128GB TruDDR4 Performance+ 2933MHz (4Rx4 1.2V) 3DS RDIMM | 24 | 24 | 24 | 24 |
| 3DS RDIMMs - 2933 MHz | | | | | | |
| 4ZC7A15113 | B587 | ThinkSystem 128GB TruDDR4 2933MHz (4Rx4 1.2V) 3DS RDIMM | No | No | No | 24 |

Persistent Memory

The VX2320, VX3320, VX7320-N, and 1U Certified Node systems support the following persistent memory options.

For details about these options, including configuration rules, see the SR630 product guide:

<https://lenovopress.com/lp1049-thinksystem-sr630-server#persistent-memory>

Table 7. Persistent memory options

| Part number | Feature | Description | Maximum supported | | | |
|-------------|---------|---|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| 4ZC7A15110 | B4LV | ThinkSystem 128GB TruDDR4 2666MHz (1.2V) Intel Optane DC Persistent Memory | No | No | No | 12 |
| 4ZC7A15111 | B4LW | ThinkSystem 256GB TruDDR4 2666MHz (1.2V) Intel Optane DC Persistent Memory | No | No | No | 12 |
| 4ZC7A15112 | B4LX | ThinkSystem 512GB TruDDR4 2666MHz (1.2V) Intel Optane DC Persistent Memory | No | No | No | 12 |

Internal storage

Internal storage configurations of the VX2320, VX3320, VX7320-N, and 1U Certified Node are as follows. All drives are hot-swap and are accessible from the front or rear of the system:

- ThinkAgile VX2330 Appliance
 - Front drive bays: 4x 3.5-inch SAS/SATA
 - Rear drive bays: None
- ThinkAgile VX3330 Appliance
 - Front drive bays: 6x 2.5-inch SAS/SATA & 4x 2.5-inch AnyBay
 - Rear drive bays: None
- ThinkAgile VX7330-N Appliance
 - Front drive bays: 10x 2.5-inch NVMe
 - Rear drive bays: None
- ThinkAgile VX3331 Certified Node
 - 4x 3.5" SAS/SATA (front) + 2x 2.5" SAS/SATA (rear)
 - 4x 3.5" AnyBay (front)
 - 6x 2.5" SAS/SATA & 4x 2.5" AnyBay (front) + 2x 2.5" SAS/SATA (rear)
 - 10x 2.5" NVMe (front)

The server also supports one or two M.2 drives for OS boot purposes, installed in an M.2 adapter internal to the server.

Ordering information is listed in the following table.

Table 8. Drive backplanes

| Feature | Description | Maximum supported | | | |
|---------------------------------|---|-------------------|--------|----------|-------|
| | | VX2320 | VX3320 | VX7320-N | VX 1U |
| Front 3.5-inch drive backplanes | | | | | |
| AUW8 | ThinkSystem 3.5" SATA/SAS 4-Bay Backplane (4x SAS/SATA) | 1 | No | No | 1 |
| B0WJ | ThinkSystem SR630 3.5" AnyBay 4-Bay Backplane (4x AnyBay) | No | No | No | 1 |
| Front 2.5-inch drive backplanes | | | | | |
| AUW9 | ThinkSystem 1U 2.5" 4 AnyBay 10-Bay Backplane (6x SAS/SATA + 4x AnyBay) | No | 1 | No | 1 |
| AVKF | ThinkSystem SR630 2.5" U.2 10-Bay Backplane Kit (10x NVMe) | No | No | 1 | 1 |
| Rear 2.5-inch drive backplane | | | | | |
| AUWJ | ThinkSystem SR630 Rear HDD/SSD Kit (2x SAS/SATA) | No | No | No | 1 |

For details about these components, including configuration rules, see the SR630 product guide:

<https://lenovopress.com/lp1049-thinksystem-sr630-server#internal-storage>

The following figure shows the internal drive bay configurations.

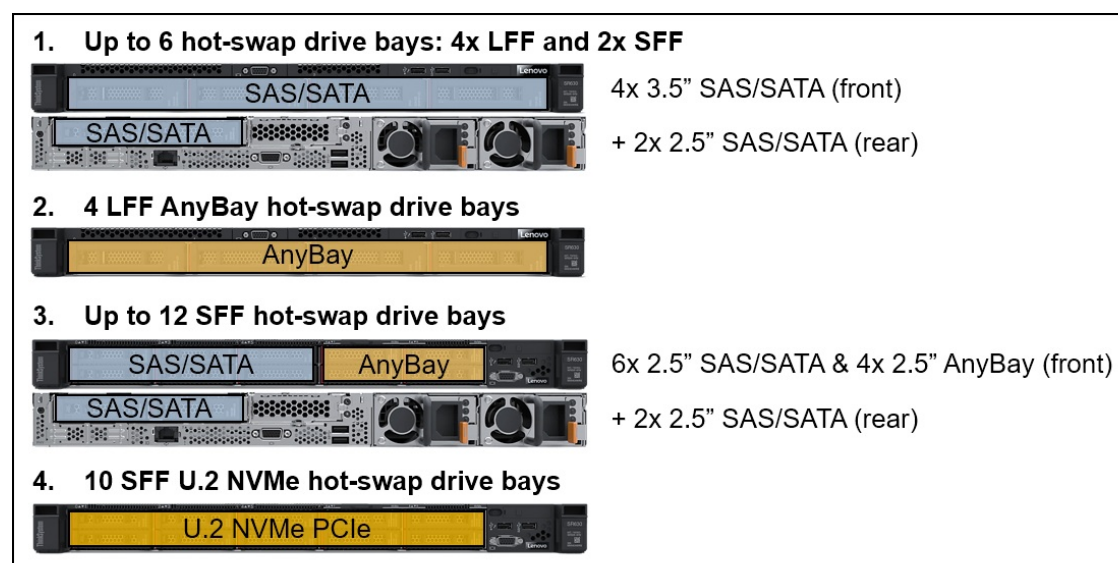


Figure 5. Internal drive bay configurations

Disk Groups

The following table lists the supported Disk Groups for each VX system.

Table 9. Disk Groups

| Drive Selection Rules | VX2320 Appliance | VX3320 Appliance | VX7320-N Appliance | VX 1U Certified Node |
|---|-------------------------------|-------------------------------|--------------------|-------------------------------|
| Model Type | Hybrid (HY) All Flash (AF) | Hybrid (HY) All Flash (AF) | All Flash (AF) | Hybrid (HY) All Flash (AF) |
| Maximum number of drives | 4 | 10 | 10 | 10 |
| Number of Disk Groups | 1 | 1 or 2 | 1 or 2 | 1 or 2 |
| Number of Cache Drives per Disk Group | 1 | 1 | 1 | 1 |
| Number of Capacity Drives per Disk Group | 2 - 3 | 2 - 7 | 2 - 7 | 2 - 7 |
| Allowed Capacity Drive Quantities: | | | | |
| 1 Disk Group (1 Cache Drive) | 2 or 3 | 2, 3, 4, 5, 6 or 7 | 2, 3, 4, 5, 6 or 7 | 2, 3, 4, 5, 6 or 7 |
| 2 Disk Groups (2 Cache Drives) | 4 | 4, 6 or 8 | 4, 6 or 8 | 4, 6 or 8 |
| 3 Disk Groups (3 Cache Drives) | Not supported | 6 | 6 | 6 |

Controllers for internal storage

The VX2320, VX3320, VX7320-N, and 1U Certified Node systems support the following storage controller options.

Table 10. Controllers for internal storage

| Part number | Feature | Description | Maximum supported | | | |
|------------------------------|---------|---|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| 12 Gb SAS/SATA non-RAID HBAs | | | | | | |
| 7Y37A01088 | AUNL | ThinkSystem 430-8i SAS/SATA 12Gb HBA | 1 | No | No | 1 |
| 4Y37A72480 | BJHH | ThinkSystem 4350-8i SAS/SATA 12Gb HBA | 1 | 1 | No | 1 |
| 4Y37A78601 | BM51 | ThinkSystem 440-8i SAS/SATA PCIe Gen4 12Gb HBA | 1 | 1 | No | 1 |
| 7Y37A01089 | AUNM | ThinkSystem 430-16i SAS/SATA 12Gb HBA | No | 1 | No | 1 |
| 4Y37A72481 | BJHJ | ThinkSystem 4350-16i SAS/SATA 12Gb HBA | No | 1 | No | 1 |
| 4Y37A78602 | BM50 | ThinkSystem 440-16i SAS/SATA PCIe Gen4 12Gb HBA | No | 1 | No | 1 |
| NVMe PCIe interfaces | | | | | | |
| 7Y37A01081 | AUV2 | ThinkSystem 1610-4P NVMe Switch Adapter | No | No | 2 | 2 |
| 4Y37A09719 | B22D | ThinkSystem 810-4P NVMe Switch Adapter | No | No | 2 | 2 |

Internal drive options

This section lists the supported drives:

- [Boot drives](#)
- [Internal drives for VX2320](#)
- [Internal drives for VX3320](#)

- [Internal drives for VX7320-N](#)
- [Internal drives for VX 1U Certified Node](#)

Boot drives

The VX2320, VX3320, VX7320-N, and 1U Certified Node systems support the following drive for boot functions.

Table 11. Boot drives

| Part number | Feature | Description | Maximum supported | | | |
|-------------|---------|--|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| 4XB7A17071 | B8HS | ThinkSystem M.2 5300 240GB SATA 6Gbps Non-Hot Swap SSD | No | No | No | 2 |
| 4XB7A17073 | B919 | ThinkSystem M.2 5300 480GB SATA 6Gbps Non-Hot Swap SSD | 2 | 2 | 2 | 2 |

Internal drives for VX2320 Appliance

The following table lists the drives supported in the VX2320 Appliance. For both All Flash Storage and Hybrid Storage configurations, drives are classified as either Cache drives, Capacity drives, or both.

Table 12. Drives supported in the VX2320 Appliance

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|----------------------------------|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 3.5-inch hot-swap 12 Gb SAS HDDs | | | | | | |
| 7XB7A00041 | AUU4 | ThinkSystem 3.5" 1TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 4 |
| 7XB7A00042 | AUU5 | ThinkSystem 3.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 4 |
| 7XB7A00043 | AUU6 | ThinkSystem 3.5" 4TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 4 |
| 7XB7A00044 | AUU7 | ThinkSystem 3.5" 6TB 7.2K SAS 12Gb Hot Swap 512e HDD | No | No | No | 4 |
| 7XB7A00045 | B0YR | ThinkSystem 3.5" 8TB 7.2K SAS 12Gb Hot Swap 512e HDD | No | No | No | 4 |
| 3.5-inch hot-swap 12 Gb SAS SSDs | | | | | | |
| 4XB7A70011 | BG03 | ThinkSystem 3.5" Nytro 3732 400GB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A70010 | BG02 | ThinkSystem 3.5" Nytro 3732 800GB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A70009 | BG01 | ThinkSystem 3.5" Nytro 3732 1.6TB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A70008 | BG00 | ThinkSystem 3.5" Nytro 3732 3.2TB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A10234 | B4Y8 | ThinkSystem 3.5" SS530 800GB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A17066 | B8HT | ThinkSystem 3.5" PM1645a 800GB Mainstream SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|---|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A17043 | B8JN | ThinkSystem 3.5" PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A17067 | B8JK | ThinkSystem 3.5" PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A17058 | B91E | ThinkSystem 3.5" PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 3.5-inch hot-swap 6 Gb SATA SSDs | | | | | | |
| 4XB7A17137 | BA4W | ThinkSystem 3.5" S4620 480GB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17138 | BA4X | ThinkSystem 3.5" S4620 960GB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17139 | BA4Y | ThinkSystem 3.5" S4620 1.92TB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17140 | BK7P | ThinkSystem 3.5" S4620 3.84TB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17097 | B8JF | ThinkSystem 3.5" 5300 480GB Mainstream SATA 6Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A17098 | B8J0 | ThinkSystem 3.5" 5300 960GB Mainstream SATA 6Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A17099 | B8HR | ThinkSystem 3.5" 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A17100 | B8HX | ThinkSystem 3.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A13640 | B49S | ThinkSystem 3.5" S4610 480GB Mixed Use SATA 6Gb HS SSD | No | 4 | 4 | No |
| 4XB7A13641 | B49T | ThinkSystem 3.5" S4610 960GB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A13642 | B49U | ThinkSystem 3.5" S4610 1.92TB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A13643 | B49V | ThinkSystem 3.5" S4610 3.84TB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17119 | BA7L | ThinkSystem 3.5" S4520 480GB Read Intensive SATA 6Gb HS SSD | No | 4 | 4 | No |
| 4XB7A17120 | BA7M | ThinkSystem 3.5" S4520 960GB Read Intensive SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17121 | BA7N | ThinkSystem 3.5" S4520 1.92TB Read Intensive SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17122 | BK7F | ThinkSystem 3.5" S4520 3.84TB Read Intensive SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17123 | BK7G | ThinkSystem 3.5" S4520 7.68TB Read Intensive SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17083 | B8JC | ThinkSystem 3.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD | No | 4 | 4 | No |
| 4XB7A17084 | B8HZ | ThinkSystem 3.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD | 4 | 4 | 4 | No |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|-------------|---------|--|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A17085 | B8HQ | ThinkSystem 3.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A13627 | B49F | ThinkSystem 3.5" S4510 960GB Read Intensive SATA 6Gb HS SSD | No | 4 | 4 | No |
| 4XB7A13628 | B49G | ThinkSystem 3.5" S4510 1.92TB Read Intensive SATA 6Gb HS SSD | No | 4 | 4 | No |
| 4XB7A13629 | B49H | ThinkSystem 3.5" S4510 3.84TB Read Intensive SATA 6Gb HS SSD | No | 4 | 4 | No |

Internal drives for VX3320 Appliance

The following table lists the drives supported in the VX3320 Appliance. For both All Flash Storage and Hybrid Storage configurations, drives are classified as either Cache drives, Capacity drives, or both.

Table 13. Drives supported in the VX3320 Appliance

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|----------------------------------|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 2.5-inch hot-swap 12 Gb SAS HDDs | | | | | | |
| 7XB7A00026 | AUM0 | ThinkSystem 2.5" 900GB 10K SAS 12Gb Hot Swap 512n HDD | No | No | No | 10 |
| 7XB7A00027 | AUM1 | ThinkSystem 2.5" 1.2TB 10K SAS 12Gb Hot Swap 512n HDD | No | No | No | 10 |
| 7XB7A00028 | AUM2 | ThinkSystem 2.5" 1.8TB 10K SAS 12Gb Hot Swap 512e HDD | No | No | No | 10 |
| 7XB7A00069 | B0YS | ThinkSystem 2.5" 2.4TB 10K SAS 12Gb Hot Swap 512e HDD | No | No | No | 10 |
| 7XB7A00023 | AULX | ThinkSystem 2.5" 900GB 15K SAS 12Gb Hot Swap 512e HDD | No | No | No | 10 |
| 7XB7A00034 | AUM6 | ThinkSystem 2.5" 1TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 10 |
| 7XB7A00035 | AUM7 | ThinkSystem 2.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 10 |
| 2.5-inch hot-swap 12 Gb SAS SSDs | | | | | | |
| 4XB7A70006 | BG07 | ThinkSystem 2.5" Nytro 3732 400GB Performance SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A70005 | BG06 | ThinkSystem 2.5" Nytro 3732 800GB Performance SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A70004 | BG05 | ThinkSystem 2.5" Nytro 3732 1.6TB Performance SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A70003 | BG04 | ThinkSystem 2.5" Nytro 3732 3.2TB Performance SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A10230 | B4Y5 | ThinkSystem 2.5" SS530 800GB Performance SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|---|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A17062 | B8HU | ThinkSystem 2.5" PM1645a 800GB Mainstream SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17063 | B8J4 | ThinkSystem 2.5" PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17064 | B8JD | ThinkSystem 2.5" PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A38175 | B91A | ThinkSystem 2.5" PM1643a 960GB Entry SAS 12Gb Hot Swap SSD | No | 10 | No | No |
| 4XB7A38176 | B91B | ThinkSystem 2.5" PM1643a 1.92TB Entry SAS 12Gb Hot Swap SSD | No | 10 | No | 10 |
| 4XB7A17054 | B91C | ThinkSystem 2.5" PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17055 | B91D | ThinkSystem 2.5" PM1643a 7.68TB Entry SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17056 | BC4R | ThinkSystem 2.5" PM1643a 15.36TB Entry SAS 12Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 2.5-inch hot-swap 6 Gb SATA SSDs | | | | | | |
| 4XB7A17125 | BA7Q | ThinkSystem 2.5" S4620 480GB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A17126 | BA4T | ThinkSystem 2.5" S4620 960GB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A17127 | BA4U | ThinkSystem 2.5" S4620 1.92TB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A17128 | BK7L | ThinkSystem 2.5" S4620 3.84TB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A17088 | B8HY | ThinkSystem 2.5" 5300 480GB Mainstream SATA 6Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17089 | B8J6 | ThinkSystem 2.5" 5300 960GB Mainstream SATA 6Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17090 | B8JE | ThinkSystem 2.5" 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17091 | B8J7 | ThinkSystem 2.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A13634 | B49M | ThinkSystem 2.5" S4610 480GB Mixed Use SATA 6Gb HS SSD | 10 | 10 | No | No |
| 4XB7A13635 | B49N | ThinkSystem 2.5" S4610 960GB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A13636 | B49P | ThinkSystem 2.5" S4610 1.92TB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A13637 | B49Q | ThinkSystem 2.5" S4610 3.84TB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A72438 | BM8B | ThinkSystem 2.5" PM893 480GB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |
| 4XB7A72439 | BM8A | ThinkSystem 2.5" PM893 960GB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|---|---------|--|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A72440 | BM89 | ThinkSystem 2.5" PM893 1.92TB Read Intensive SATA 6Gb HS SSD | No | 12 | 12 | No |
| 4XB7A72441 | BM88 | ThinkSystem 2.5" PM893 3.84TB Read Intensive SATA 6Gb HS SSD | 12 | 12 | 12 | No |
| 4XB7A72442 | BM87 | ThinkSystem 2.5" PM893 7.68TB Read Intensive SATA 6Gb HS SSD | 12 | 12 | 12 | No |
| 4XB7A17101 | BA7G | ThinkSystem 2.5" S4520 480GB Read Intensive SATA 6Gb HS SSD | No | 10 | No | No |
| 4XB7A17102 | BA7H | ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD | No | 10 | No | No |
| 4XB7A17103 | BA7J | ThinkSystem 2.5" S4520 1.92TB Read Intensive SATA 6Gb HS SSD | No | 10 | No | No |
| 4XB7A17104 | BK77 | ThinkSystem 2.5" S4520 3.84TB Read Intensive SATA 6Gb HS SSD | No | 10 | No | No |
| 4XB7A17105 | BK78 | ThinkSystem 2.5" S4520 7.68TB Read Intensive SATA 6Gb HS SSD | No | 10 | No | No |
| 4XB7A17076 | B8JM | ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD | No | 10 | No | No |
| 4XB7A17077 | B8HP | ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD | No | 10 | 10 | 10 |
| 4XB7A17078 | B8J5 | ThinkSystem 2.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17079 | B8JP | ThinkSystem 2.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A17080 | B8J2 | ThinkSystem 2.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD | No | 10 | No | No |
| 4XB7A10248 | B499 | ThinkSystem 2.5" S4510 480GB Read Intensive SATA 6Gb HS SSD | No | 10 | No | No |
| 4XB7A10249 | B49A | ThinkSystem 2.5" S4510 960GB Read Intensive SATA 6Gb HS SSD | No | 10 | 10 | No |
| 4XB7A13622 | B49B | ThinkSystem 2.5" S4510 1.92TB Read Intensive SATA 6Gb HS SSD | No | 10 | 10 | No |
| 4XB7A13623 | B49C | ThinkSystem 2.5" S4510 3.84TB Read Intensive SATA 6Gb HS SSD | No | 10 | 10 | No |
| 4XB7A10196 | B34J | ThinkSystem 2.5" PM883 480GB Entry SATA 6Gb Hot Swap SSD | No | 10 | No | No |
| 4XB7A10197 | B34K | ThinkSystem 2.5" PM883 960GB Entry SATA 6Gb Hot Swap SSD | No | 10 | No | No |
| 4XB7A10198 | B34L | ThinkSystem 2.5" PM883 1.92TB Entry SATA 6Gb Hot Swap SSD | No | 10 | 10 | No |
| 4XB7A10199 | B34M | ThinkSystem 2.5" PM883 3.84TB Entry SATA 6Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A10200 | B4D2 | ThinkSystem 2.5" PM883 7.68TB Entry SATA 6Gb Hot Swap SSD | 10 | 10 | 10 | No |
| 2.5-inch hot-swap PCIe 4.0 NVMe SSDs | | | | | | |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|---|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A17152 | BCFV | ThinkSystem 2.5" U.2 P5600 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 | No | No |
| 4XB7A17153 | BCFR | ThinkSystem 2.5" U.2 P5600 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 | No | No |
| 4XB7A17154 | BCFS | ThinkSystem 2.5" U.2 P5600 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 | No | No |
| 4XB7A38197 | BC4Z | ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 | No | No |
| 4XB7A38283 | BE2E | ThinkSystem U.2 PM1733 7.68TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 | No | No |
| 4XB7A38284 | BE2F | ThinkSystem U.2 PM1733 15.36TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 | No | No |
| 2.5-inch hot-swap PCIe 3.0 NVMe SSDs | | | | | | |
| 7N47A00081 | AUMJ | ThinkSystem 2.5" U.2 P4800X 375GB Write Intensive NVMe PCIe 3.0 x4 HS SSD | 10 | 10 | No | No |
| 7N47A00083 | B2ZJ | ThinkSystem 2.5" U.2 P4800X 750GB Write Intensive NVMe PCIe 3.0 x4 HS SSD | 10 | 10 | No | No |
| 4XB7A13936 | B589 | ThinkSystem U.2 Intel P4610 1.6TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A10204 | B58G | ThinkSystem 2.5" U.2 P4510 2.0TB Read Intensive NVMe PCIe 3.0 x4 HS SSD | No | 10 | No | No |
| 4XB7A10205 | B58H | ThinkSystem U.2 Intel P4510 4.0TB Entry NVMe PCIe3.0 x4 Hot Swap SSD | No | 10 | No | No |

Internal drives for VX7320-N Appliance

The following table lists the drives supported in the VX7320-N Appliance. The VX7320-N Appliance only supports an All Flash Storage configuration, and drives are classified as either Cache drives, Capacity drives, or both.

Table 14. Drives supported in the VX7320-N Appliance

| Part number | Feature | Description | All Flash Storage | |
|--------------------------------------|---------|---|-------------------|----------|
| | | | Cache | Capacity |
| 2.5-inch hot-swap PCIe 4.0 NVMe SSDs | | | | |
| 4XB7A17152 | BCFV | ThinkSystem 2.5" U.2 P5600 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 |
| 4XB7A17153 | BCFR | ThinkSystem 2.5" U.2 P5600 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 |
| 4XB7A17154 | BCFS | ThinkSystem 2.5" U.2 P5600 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 |
| 4XB7A17145 | BCFT | ThinkSystem 2.5" U.2 P5500 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD | No | 10 |
| 4XB7A17146 | BCFW | ThinkSystem 2.5" U.2 P5500 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD | No | 10 |
| 4XB7A17147 | BCFU | ThinkSystem 2.5" U.2 P5500 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD | No | 10 |
| 4XB7A38197 | BC4Z | ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 |
| 4XB7A38283 | BE2E | ThinkSystem U.2 PM1733 7.68TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 |
| 4XB7A38284 | BE2F | ThinkSystem U.2 PM1733 15.36TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 |
| 2.5-inch hot-swap PCIe 3.0 NVMe SSDs | | | | |
| 7N47A00081 | AUMJ | ThinkSystem 2.5" U.2 P4800X 375GB Write Intensive NVMe PCIe 3.0 x4 HS SSD | 10 | 10 |
| 7N47A00083 | B2ZJ | ThinkSystem 2.5" U.2 P4800X 750GB Write Intensive NVMe PCIe 3.0 x4 HS SSD | 10 | 10 |
| 4XB7A13936 | B589 | ThinkSystem U.2 Intel P4610 1.6TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD | 10 | 10 |
| 4XB7A10204 | B58G | ThinkSystem 2.5" U.2 P4510 2.0TB Read Intensive NVMe PCIe 3.0 x4 HS SSD | No | 10 |
| 4XB7A10205 | B58H | ThinkSystem U.2 Intel P4510 4.0TB Entry NVMe PCIe3.0 x4 Hot Swap SSD | No | 10 |

Internal drives for VX 1U Certified Node

The following table lists the drives supported in the VX 1U Certified Node. For both All Flash Storage and Hybrid Storage configurations, drives are classified as either Cache drives, Capacity drives, or both.

Table 15. Drives supported in the VX 1U Certified Node

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|----------------------------------|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 2.5-inch hot-swap 12 Gb SAS HDDs | | | | | | |
| 7XB7A00026 | AUM0 | ThinkSystem 2.5" 900GB 10K SAS 12Gb Hot Swap 512n HDD | No | No | No | 12 |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|---|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 7XB7A00027 | AUM1 | ThinkSystem 2.5" 1.2TB 10K SAS 12Gb Hot Swap 512n HDD | No | No | No | 12 |
| 7XB7A00028 | AUM2 | ThinkSystem 2.5" 1.8TB 10K SAS 12Gb Hot Swap 512e HDD | No | No | No | 12 |
| 7XB7A00069 | B0YS | ThinkSystem 2.5" 2.4TB 10K SAS 12Gb Hot Swap 512e HDD | No | No | No | 12 |
| 7XB7A00023 | AULX | ThinkSystem 2.5" 900GB 15K SAS 12Gb Hot Swap 512e HDD | No | No | No | 12 |
| 7XB7A00034 | AUM6 | ThinkSystem 2.5" 1TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 12 |
| 7XB7A00035 | AUM7 | ThinkSystem 2.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 12 |
| 2.5-inch hot-swap 12 Gb SAS SSDs | | | | | | |
| 4XB7A70006 | BG07 | ThinkSystem 2.5" Nytro 3732 400GB Performance SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A70005 | BG06 | ThinkSystem 2.5" Nytro 3732 800GB Performance SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A70004 | BG05 | ThinkSystem 2.5" Nytro 3732 1.6TB Performance SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A70003 | BG04 | ThinkSystem 2.5" Nytro 3732 3.2TB Performance SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A10230 | B4Y5 | ThinkSystem 2.5" SS530 800GB Performance SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17062 | B8HU | ThinkSystem 2.5" PM1645a 800GB Mainstream SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17063 | B8J4 | ThinkSystem 2.5" PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17064 | B8JD | ThinkSystem 2.5" PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A38175 | B91A | ThinkSystem 2.5" PM1643a 960GB Entry SAS 12Gb Hot Swap SSD | No | 12 | No | No |
| 4XB7A38176 | B91B | ThinkSystem 2.5" PM1643a 1.92TB Entry SAS 12Gb Hot Swap SSD | No | 12 | No | 12 |
| 4XB7A17054 | B91C | ThinkSystem 2.5" PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17055 | B91D | ThinkSystem 2.5" PM1643a 7.68TB Entry SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17056 | BC4R | ThinkSystem 2.5" PM1643a 15.36TB Entry SAS 12Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 2.5-inch hot-swap 6 Gb SATA SSDs | | | | | | |
| 4XB7A17125 | BA7Q | ThinkSystem 2.5" S4620 480GB Mixed Use SATA 6Gb HS SSD | 12 | 12 | 12 | No |
| 4XB7A17126 | BA4T | ThinkSystem 2.5" S4620 960GB Mixed Use SATA 6Gb HS SSD | 12 | 12 | 12 | No |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|-------------|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A17127 | BA4U | ThinkSystem 2.5" S4620 1.92TB Mixed Use SATA 6Gb HS SSD | 12 | 12 | 12 | No |
| 4XB7A17128 | BK7L | ThinkSystem 2.5" S4620 3.84TB Mixed Use SATA 6Gb HS SSD | 12 | 12 | 12 | No |
| 4XB7A17088 | B8HY | ThinkSystem 2.5" 5300 480GB Mainstream SATA 6Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17089 | B8J6 | ThinkSystem 2.5" 5300 960GB Mainstream SATA 6Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17090 | B8JE | ThinkSystem 2.5" 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17091 | B8J7 | ThinkSystem 2.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A13634 | B49M | ThinkSystem 2.5" S4610 480GB Mixed Use SATA 6Gb HS SSD | 10 | 10 | No | No |
| 4XB7A13635 | B49N | ThinkSystem 2.5" S4610 960GB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A13636 | B49P | ThinkSystem 2.5" S4610 1.92TB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A13637 | B49Q | ThinkSystem 2.5" S4610 3.84TB Mixed Use SATA 6Gb HS SSD | 10 | 10 | 10 | No |
| 4XB7A72438 | BM8B | ThinkSystem 2.5" PM893 480GB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |
| 4XB7A72439 | BM8A | ThinkSystem 2.5" PM893 960GB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |
| 4XB7A72440 | BM89 | ThinkSystem 2.5" PM893 1.92TB Read Intensive SATA 6Gb HS SSD | No | 12 | 12 | No |
| 4XB7A72441 | BM88 | ThinkSystem 2.5" PM893 3.84TB Read Intensive SATA 6Gb HS SSD | 12 | 12 | 12 | No |
| 4XB7A72442 | BM87 | ThinkSystem 2.5" PM893 7.68TB Read Intensive SATA 6Gb HS SSD | 12 | 12 | 12 | No |
| 4XB7A17101 | BA7G | ThinkSystem 2.5" S4520 480GB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |
| 4XB7A17102 | BA7H | ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |
| 4XB7A17103 | BA7J | ThinkSystem 2.5" S4520 1.92TB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |
| 4XB7A17104 | BK77 | ThinkSystem 2.5" S4520 3.84TB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |
| 4XB7A17105 | BK78 | ThinkSystem 2.5" S4520 7.68TB Read Intensive SATA 6Gb HS SSD | No | 12 | No | No |
| 4XB7A17076 | B8JM | ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD | No | 12 | No | No |
| 4XB7A17077 | B8HP | ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD | No | 12 | 12 | 12 |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|---|---------|--|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A17078 | B8J5 | ThinkSystem 2.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17079 | B8JP | ThinkSystem 2.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A17080 | B8J2 | ThinkSystem 2.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD | No | 12 | No | No |
| 4XB7A10248 | B499 | ThinkSystem 2.5" S4510 480GB Read Intensive SATA 6Gb HS SSD | No | 10 | No | No |
| 4XB7A10249 | B49A | ThinkSystem 2.5" S4510 960GB Read Intensive SATA 6Gb HS SSD | No | 10 | 10 | No |
| 4XB7A13622 | B49B | ThinkSystem 2.5" S4510 1.92TB Read Intensive SATA 6Gb HS SSD | No | 10 | 10 | No |
| 4XB7A13623 | B49C | ThinkSystem 2.5" S4510 3.84TB Read Intensive SATA 6Gb HS SSD | No | 10 | 10 | No |
| 4XB7A10196 | B34J | ThinkSystem 2.5" PM883 480GB Entry SATA 6Gb Hot Swap SSD | No | 12 | No | No |
| 4XB7A10197 | B34K | ThinkSystem 2.5" PM883 960GB Entry SATA 6Gb Hot Swap SSD | No | 12 | No | No |
| 4XB7A10198 | B34L | ThinkSystem 2.5" PM883 1.92TB Entry SATA 6Gb Hot Swap SSD | No | 12 | 12 | No |
| 4XB7A10199 | B34M | ThinkSystem 2.5" PM883 3.84TB Entry SATA 6Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 4XB7A10200 | B4D2 | ThinkSystem 2.5" PM883 7.68TB Entry SATA 6Gb Hot Swap SSD | 12 | 12 | 12 | No |
| 2.5-inch hot-swap PCIe 4.0 NVMe SSDs | | | | | | |
| 4XB7A17152 | BCFV | ThinkSystem 2.5" U.2 P5600 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 | No | No |
| 4XB7A17153 | BCFR | ThinkSystem 2.5" U.2 P5600 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 | No | No |
| 4XB7A17154 | BCFS | ThinkSystem 2.5" U.2 P5600 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 10 | 10 | No | No |
| 4XB7A17145 | BCFT | ThinkSystem 2.5" U.2 P5500 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD | No | 10 | No | No |
| 4XB7A17146 | BCFW | ThinkSystem 2.5" U.2 P5500 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD | No | 10 | No | No |
| 4XB7A17147 | BCFU | ThinkSystem 2.5" U.2 P5500 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD | No | 10 | No | No |
| 4XB7A38197 | BC4Z | ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 | No | No |
| 4XB7A38283 | BE2E | ThinkSystem U.2 PM1733 7.68TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 | No | No |
| 4XB7A38284 | BE2F | ThinkSystem U.2 PM1733 15.36TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD | No | 10 | No | No |
| 2.5-inch hot-swap PCIe 3.0 NVMe SSDs | | | | | | |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|---|---------|---|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 7N47A00081 | AUMJ | ThinkSystem 2.5" U.2 P4800X 375GB Write Intensive NVMe PCIe 3.0 x4 HS SSD | 10 | 10 | No | No |
| 7N47A00083 | B2ZJ | ThinkSystem 2.5" U.2 P4800X 750GB Write Intensive NVMe PCIe 3.0 x4 HS SSD | 10 | 10 | No | No |
| 4XB7A13936 | B589 | ThinkSystem U.2 Intel P4610 1.6TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD | 10 | 10 | 10 | No |
| 4XB7A10204 | B58G | ThinkSystem 2.5" U.2 P4510 2.0TB Read Intensive NVMe PCIe 3.0 x4 HS SSD | No | 10 | No | No |
| 4XB7A10205 | B58H | ThinkSystem U.2 Intel P4510 4.0TB Entry NVMe PCIe3.0 x4 Hot Swap SSD | No | 10 | No | No |
| 3.5-inch hot-swap 12 Gb SAS HDDs | | | | | | |
| 7XB7A00041 | AUU4 | ThinkSystem 3.5" 1TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 4 |
| 7XB7A00042 | AUU5 | ThinkSystem 3.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 4 |
| 7XB7A00043 | AUU6 | ThinkSystem 3.5" 4TB 7.2K SAS 12Gb Hot Swap 512n HDD | No | No | No | 4 |
| 7XB7A00044 | AUU7 | ThinkSystem 3.5" 6TB 7.2K SAS 12Gb Hot Swap 512e HDD | No | No | No | 4 |
| 7XB7A00045 | B0YR | ThinkSystem 3.5" 8TB 7.2K SAS 12Gb Hot Swap 512e HDD | No | No | No | 4 |
| 7XB7A00046 | AUUG | ThinkSystem 3.5" 10TB 7.2K SAS 12Gb Hot Swap 512e HDD | No | No | No | 4 |
| 7XB7A00067 | B117 | ThinkSystem 3.5" 12TB 7.2K SAS 12Gb Hot Swap 512e HDD | No | No | No | 4 |
| 4XB7A13906 | B496 | ThinkSystem 3.5" 14TB 7.2K SAS 12Gb Hot Swap 512e HDD | No | No | No | 12 |
| 4XB7A13911 | B7EZ | ThinkSystem 3.5" 16TB 7.2K SAS 12Gb Hot Swap 512e HDD | No | No | No | 8 |
| 3.5-inch hot-swap 12 Gb SAS SSDs | | | | | | |
| 4XB7A70011 | BG03 | ThinkSystem 3.5" Nytro 3732 400GB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A70010 | BG02 | ThinkSystem 3.5" Nytro 3732 800GB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A70009 | BG01 | ThinkSystem 3.5" Nytro 3732 1.6TB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A70008 | BG00 | ThinkSystem 3.5" Nytro 3732 3.2TB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A10234 | B4Y8 | ThinkSystem 3.5" SS530 800GB Performance SAS 12Gb Hot Swap SSD | 4 | 4 | 4 | No |
| 4XB7A17066 | B8HT | ThinkSystem 3.5" PM1645a 800GB Mainstream SAS 12Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 4XB7A17043 | B8JN | ThinkSystem 3.5" PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD | 8 | 8 | 8 | No |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|---|---------|--|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A17067 | B8JK | ThinkSystem 3.5" PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 4XB7A17058 | B91E | ThinkSystem 3.5" PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 3.5-inch hot-swap 6 Gb SATA SSDs | | | | | | |
| 4XB7A17097 | B8JF | ThinkSystem 3.5" 5300 480GB Mainstream SATA 6Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 4XB7A17098 | B8J0 | ThinkSystem 3.5" 5300 960GB Mainstream SATA 6Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 4XB7A17099 | B8HR | ThinkSystem 3.5" 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 4XB7A17100 | B8HX | ThinkSystem 3.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 4XB7A13640 | B49S | ThinkSystem 3.5" S4610 480GB Mixed Use SATA 6Gb HS SSD | No | 4 | 4 | No |
| 4XB7A13641 | B49T | ThinkSystem 3.5" S4610 960GB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A13642 | B49U | ThinkSystem 3.5" S4610 1.92TB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A13643 | B49V | ThinkSystem 3.5" S4610 3.84TB Mixed Use SATA 6Gb HS SSD | 4 | 4 | 4 | No |
| 4XB7A17081 | B8JB | ThinkSystem 3.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD | No | 8 | No | No |
| 4XB7A17082 | B8J9 | ThinkSystem 3.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD | No | 8 | No | No |
| 4XB7A17083 | B8JC | ThinkSystem 3.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD | No | 8 | 8 | No |
| 4XB7A17084 | B8HZ | ThinkSystem 3.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 4XB7A17085 | B8HQ | ThinkSystem 3.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD | 8 | 8 | 8 | No |
| 4XB7A17086 | B8J3 | ThinkSystem 3.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD | No | 8 | No | No |
| 4XB7A13626 | B49E | ThinkSystem 3.5" S4510 480GB Read Intensive SATA 6Gb HS SSD | No | 4 | No | No |
| 4XB7A13627 | B49F | ThinkSystem 3.5" S4510 960GB Read Intensive SATA 6Gb HS SSD | No | 4 | 4 | No |
| 4XB7A13628 | B49G | ThinkSystem 3.5" S4510 1.92TB Read Intensive SATA 6Gb HS SSD | No | 4 | 4 | No |
| 4XB7A13629 | B49H | ThinkSystem 3.5" S4510 3.84TB Read Intensive SATA 6Gb HS SSD | No | 4 | 4 | No |
| 3.5-inch hot-swap PCIe 4.0 NVMe SSDs | | | | | | |
| 4XB7A17155 | BCFM | ThinkSystem 3.5" U.2 P5600 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 4 | 4 | No | No |

| Part number | Feature | Description | All Flash Storage | | Hybrid Storage | |
|-------------|---------|--|-------------------|----------|----------------|----------|
| | | | Cache | Capacity | Cache | Capacity |
| 4XB7A17156 | BCFJ | ThinkSystem 3.5" U.2 P5600 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 4 | 4 | No | No |
| 4XB7A17157 | BCFQ | ThinkSystem 3.5" U.2 P5600 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD | 4 | 4 | No | No |

Network adapters

The VX2320, VX3320, VX7320-N, and 1U Certified Node systems support the following networking options.

For details about these options, including configuration rules, see the SR630 product guide:

<https://lenovopress.com/lp1049-thinksystem-sr630-server#i-o-expansion>

<https://lenovopress.com/lp1049-thinksystem-sr630-server#network-adapters>

Table 16. LOM network adapters

| Part number | Feature | Description | Maximum supported | | | |
|------------------------------|---------|------------------------------------|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| LOM cards - Gigabit Ethernet | | | | | | |
| 7ZT7A00544 | AUKG | ThinkSystem 1Gb 2-port RJ45 LOM | 1 | No | No | 1 |
| 7ZT7A00545 | AUKH | ThinkSystem 1Gb 4-port RJ45 LOM | 1 | No | No | 1 |
| LOM cards - 10 Gb Ethernet | | | | | | |
| 7ZT7A00548 | AUKL | ThinkSystem 10Gb 2-port Base-T LOM | 1 | 1 | 1 | 1 |
| 7ZT7A00546 | AUKJ | ThinkSystem 10Gb 2-port SFP+ LOM | 1 | 1 | 1 | 1 |
| 7ZT7A00549 | AUKM | ThinkSystem 10Gb 4-port Base-T LOM | 1 | 1 | 1 | 1 |
| 7ZT7A00547 | AUKK | ThinkSystem 10Gb 4-port SFP+ LOM | 1 | 1 | 1 | 1 |

Table 17. PCIe network adapters

| Part number | Feature | Description | Maximum supported | | | |
|--|---------|---|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| ML2 adapters - 10 Gb Ethernet | | | | | | |
| 01CV770 | AU7Z | Emulex VFA5.2 ML2 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW | No | No | No | 1 |
| 00JY940 | ATRH | Intel X710-DA2 ML2 2x10GbE SFP+ Adapter | No | No | No | 1 |
| ML2 adapters - 25 Gb Ethernet | | | | | | |
| 00MN990 | ATZR | Mellanox ConnectX-4 Lx 10/25GbE SFP28 1-port ML2 Adapter | No | No | No | 3 |
| 7ZT7A00507 | AUKU | ThinkSystem Mellanox ConnectX-4 Lx 10/25GbE SFP28 2-Port ML2 Ethernet Adapter | No | No | No | 3 |
| PCIe Low Profile adapters - 1 Gb Ethernet | | | | | | |
| 7ZT7A00482 | AUZX | ThinkSystem Broadcom 5720 1GbE RJ45 2-Port PCIe Ethernet Adapter | No | No | No | 3 |
| 7ZT7A00484 | AUZV | ThinkSystem Broadcom 5719 1GbE RJ45 4-Port PCIe Ethernet Adapter | No | No | No | 3 |
| 7ZT7A00534 | AUZY | ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter | No | No | No | 3 |
| 7ZT7A00535 | AUZW | ThinkSystem I350-T4 PCIe 1Gb 4-Port RJ45 Ethernet Adapter | No | No | No | 3 |
| PCIe Low Profile adapters - 10 Gb Ethernet | | | | | | |
| 4XC7A79699 | BMXB | ThinkSystem Intel X710-T4L 10GBase-T 4-Port PCIe Ethernet Adapter | 3 | 3 | 3 | 3 |
| 7ZT7A00496 | AUKP | ThinkSystem Broadcom 57416 10GBASE-T 2-Port PCIe Ethernet Adapter | No | No | No | 3 |

| Part number | Feature | Description | Maximum supported | | | |
|--|---------|--|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| 00AG570 | AT7S | Emulex VFA5.2 2x10 GbE SFP+ PCIe Adapter | 3 | 3 | 3 | 3 |
| 00MM860 | ATPX | Intel X550-T2 Dual Port 10GBase-T Adapter | 3 | 3 | 3 | 3 |
| PCIe Full Height adapters - 10 Gb Ethernet | | | | | | |
| 7ZT7A00537 | AUKX | ThinkSystem Intel X710-DA2 PCIe 10Gb 2-Port SFP+ Ethernet Adapter | 3 | 3 | 3 | 3 |
| 7ZT7A00493 | AUKN | ThinkSystem Emulex OCE14104B-NX PCIe 10Gb 4-Port SFP+ Ethernet Adapter | No | No | No | 1 |
| PCIe Low Profile adapters - 25 Gb Ethernet | | | | | | |
| 7ZT7A00505 | AUKS | ThinkSystem Broadcom 57412 25GbE SFP28 1-Port PCIe Ethernet Adapter | 3 | 3 | 3 | 3 |
| 4XC7A08238 | B5T0 | ThinkSystem Broadcom 57414 10/25GbE SFP28 2-port PCIe Ethernet Adapter | 3 | 3 | 3 | 3 |
| 4XC7A08316 | BD49 | ThinkSystem Broadcom 57454 10/25GbE SFP28 4-port PCIe Ethernet Adapter V2 | 1 | 1 | 1 | 1 |
| 7XC7A05523 | B0WY | ThinkSystem Intel XXV710-DA2 10/25GbE SFP28 2-Port PCIe Ethernet Adapter | 3 | 3 | 3 | 3 |
| 01GR250 | AUAJ | Mellanox ConnectX-4 Lx 10/25GbE SFP28 2-port PCIe Ethernet Adapter | 3 | 3 | 3 | 3 |
| 4XC7A62580 | BE4U | ThinkSystem Mellanox ConnectX-6 Lx 10/25GbE SFP28 2-Port PCIe Ethernet Adapter | 3 | 3 | No | 3 |
| 4XC7A08228 | B21R | ThinkSystem QLogic QL41262 10/25GbE SFP28 2-Port PCIe Ethernet Adapter | No | No | No | 3 |
| PCIe Low Profile adapters - 40 Gb Ethernet | | | | | | |
| 00MM950 | ATRN | Mellanox ConnectX-4 Lx 1x40GbE QSFP+ Adapter | No | No | No | 3 |
| 4XC7A08229 | B31C | ThinkSystem Mellanox ConnectX-5 Ex 25/40GbE 2-port Low-Latency Adapter | No | No | No | 2 |
| PCIe x16 Low Profile adapters - 100 Gb Ethernet | | | | | | |
| 00MM960 | ATRP | Mellanox ConnectX-4 2x100GbE/EDR IB QSFP28 VPI Adapter | No | No | No | 3 |
| 4XC7A08248 | B8PP | ThinkSystem Mellanox ConnectX-6 Dx 100GbE QSFP56 2-port PCIe Ethernet Adapter | 2 | 2 | No | 2 |
| 4C57A14177 | B4R9 | ThinkSystem Mellanox ConnectX-6 HDR100/100GbE QSFP56 1-port PCIe VPI Adapter | 2 | 2 | No | 2 |
| 4C57A14178 | B4RA | ThinkSystem Mellanox ConnectX-6 HDR100/100GbE QSFP56 2-port PCIe VPI Adapter | 2 | 2 | No | 2 |
| PCIe x16 Low Profile adapters - 200 Gb Ethernet | | | | | | |
| 4C57A15326 | B4RC | ThinkSystem Mellanox ConnectX-6 HDR/200GbE QSFP56 1-port PCIe 4 VPI Adapter | No | 1 | 1 | 1 |

GPU adapters

The VX2320, VX3320, VX7320-N, and 1U Certified Node systems support the following GPU options.

For details about these options, including configuration rules, see the SR630 product guide:

<https://lenovopress.com/lp1049-thinksystem-sr630-server#gpu-adapters>

Table 18. GPU adapters

| Part number | Feature | Description | Maximum supported | | | |
|-------------|---------|--|-------------------|--------|----------|-------|
| | | | VX2320 | VX3320 | VX7320-N | VX 1U |
| 4X67A11584 | B31D | ThinkSystem NVIDIA Quadro P620 2GB PCIe Active GPU | No | No | No | 3 |
| 4X67A14926 | B4YB | ThinkSystem NVIDIA T4 16GB PCIe Passive GPU | No | No | No | 2 |
| 4X67A81547 | BP05 | ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU | No | No | No | 2 |

Operating system support

The VX2320 Appliance supports the following operating systems:

- VMware ESXi 6.5 U2
- VMware ESXi 6.5 U3
- VMware ESXi 6.7 U1
- VMware ESXi 6.7 U2
- VMware ESXi 6.7 U3
- VMware ESXi 7.0
- VMware ESXi 7.0 U1
- VMware ESXi 7.0 U2
- VMware ESXi 7.0 U3

The VX3320 Appliance supports the following operating systems:

- VMware ESXi 6.5 U2
- VMware ESXi 6.5 U3
- VMware ESXi 6.7 U1
- VMware ESXi 6.7 U2
- VMware ESXi 6.7 U3
- VMware ESXi 7.0
- VMware ESXi 7.0 U1
- VMware ESXi 7.0 U2
- VMware ESXi 7.0 U3

The VX7320-N Appliance supports the following operating systems:

- VMware ESXi 6.5 U2
- VMware ESXi 6.5 U3
- VMware ESXi 6.7 U1
- VMware ESXi 6.7 U2
- VMware ESXi 6.7 U3
- VMware ESXi 7.0
- VMware ESXi 7.0 U1
- VMware ESXi 7.0 U2
- VMware ESXi 7.0 U3

The VX 1U Certified Node supports the following operating systems:

- VMware ESXi 6.5 U2
- VMware ESXi 6.5 U3
- VMware ESXi 6.7 U1
- VMware ESXi 6.7 U2
- VMware ESXi 6.7 U3
- VMware ESXi 7.0
- VMware ESXi 7.0 U1
- VMware ESXi 7.0 U2
- VMware ESXi 7.0 U3

For further details, including any restrictions, see the OS Interoperability Guide:

<https://lenovopress.com/osig#term=vx%2520purley%25201u%2520%2522gen%25202%2522&support=all>

Software

VMware vSAN, vSphere, and vCenter Server software are required for ThinkAgile VX Series Appliances (Integrated Systems) and Certified Nodes. For Appliances/Integrated Systems, you are required to purchase VMware vSAN licenses for VX Series from Lenovo. For Certified Nodes, you can purchase the vSAN licenses from Lenovo or from VMware, or you can use your existing licenses. For vSphere and vCenter Server, you can use the existing VMware software licenses and active support contracts, or you can purchase software licenses and support from Lenovo or VMware.

Lenovo offers the following VMware software license and support options for ThinkAgile VX Series systems:

- VMware vSAN License and Subscription
- VMware vSphere License and Subscription
- VMware HCI Kit License and Subscription
- VMware Horizon License and Subscription
- VMware Cloud Foundation License and Subscription
- VMware vCenter Server License and Subscription

For details and ordering information, see the VMware Software Solution Product Guide:

<https://lenovopress.com/lp1265-vmware-software-solution-product-guide>

Configuration notes:

- The selection of vSAN licenses is required: Standalone licenses, HCI bundle licenses, VDI solution licenses, or VCF licenses.
- VMware software licenses that are available for selection include 1-year, 3-year, or 5-year software support (matches the duration of the selected solution-level warranty period).
- The quantity of processor-based licenses is derived by the configuration tool based on the number of processors selected.
- The quantity of VM-based licenses is specified based on VM requirements.
- The quantity of CCU-based licenses is specified based on the concurrent user requirements.

Warranty and Support

The VX2320, VX3320, VX7320-N, and 1U Certified Node have a 3-year warranty based on the machine type:

- 7Y93 - 3 year warranty

The ThinkAgile VX Series Appliances can be configured with a three- or five-year hardware warranty with 24x7 ThinkAgile Advantage Single Point of Support (Lenovo server hardware and VMware software; requires an active software support contract purchased either from VMware or Lenovo) and various levels of coverage with a well-defined scope of services, including service hours, response time, term of service, and service agreement terms and conditions.

The Lenovo local support centers perform problem determination and resolution for hardware-related issues and escalate to VMware, on behalf of the customer, for software-related problem determination. VMware will contact the customer and will own the software-related problem resolution until closure.

The standard warranty terms are customer-replaceable unit (CRU) and onsite (for field-replaceable units FRUs only) with standard call center support during normal business hours and 9x5 Next Business Day Parts Delivered.

Lenovo's additional support services provide a sophisticated, unified support structure for your data center, with an experience consistently ranked number one in customer satisfaction worldwide. Available offerings include:

- **Premier Support**

Premier Support provides a Lenovo-owned customer experience and delivers direct access to technicians skilled in hardware, software, and advanced troubleshooting, in addition to the following:

- Direct technician-to-technician access through a dedicated phone line
- 24x7x365 remote support
- Single point of contact service
- End to end case management
- Third-party collaborative software support
- Online case tools and live chat support
- On-demand remote system analysis

- **Warranty Upgrade (Preconfigured Support)**

Services are available to meet the on-site response time targets that match the criticality of your systems.

- 3, 4, or 5 years of service coverage
- 1-year or 2-year post-warranty extensions
- **Foundation Service:** 9x5 service coverage with next business day onsite response. YourDrive YourData is an optional extra (see below).
- **Essential Service:** 24x7 service coverage with 4-hour onsite response or 24-hour committed repair (available only in select markets). Bundled with YourDrive YourData.
- **Advanced Service:** 24x7 service coverage with 2-hour onsite response or 6-hour committed repair (available only in select markets). Bundled with YourDrive YourData.

- **Managed Services**

Lenovo Managed Services provides continuous 24x7 remote monitoring (plus 24x7 call center availability) and proactive management of your data center using state-of-the-art tools, systems, and practices by a team of highly skilled and experienced Lenovo services professionals.

Quarterly reviews check error logs, verify firmware & OS device driver levels, and software as needed. We'll also maintain records of latest patches, critical updates, and firmware levels, to ensure you systems are providing business value through optimized performance.

- **Technical Account Management (TAM)**

A Lenovo Technical Account Manager helps you optimize the operation of your data center based on a deep understanding of your business. You gain direct access to your Lenovo TAM, who serves as your single point of contact to expedite service requests, provide status updates, and furnish reports to track incidents over time. In addition, your TAM will help proactively make service recommendations and manage your service relationship with Lenovo to make certain your needs are met.

- **Enterprise Server Software Support**

Enterprise Software Support is an additional support service providing customers with software support on Microsoft, Red Hat, SUSE, and VMware applications and systems. Around the clock availability for critical problems plus unlimited calls and incidents helps customers address challenges fast, without incremental costs. Support staff can answer troubleshooting and diagnostic questions, address product comparability and interoperability issues, isolate causes of problems, report defects to software vendors, and more.

- **YourDrive YourData**

Lenovo's YourDrive YourData is a multi-drive retention offering that ensures your data is always under your control, regardless of the number of drives that are installed in your Lenovo server. In the unlikely event of a drive failure, you retain possession of your drive while Lenovo replaces the failed drive part. Your data stays safely on your premises, in your hands. The YourDrive YourData service can be purchased in convenient bundles and is optional with Foundation Service. It is bundled with Essential Service and Advanced Service.

- **Health Check**

Having a trusted partner who can perform regular and detailed health checks is central to maintaining efficiency and ensuring that your systems and business are always running at their best. Health Check supports Lenovo-branded server, storage, and networking devices, as well as select Lenovo-supported products from other vendors that are sold by Lenovo or a Lenovo-Authorized Reseller.

Examples of region-specific warranty terms are second or longer business day parts delivery or parts-only base warranty.

If warranty terms and conditions include onsite labor for repair or replacement of parts, Lenovo will dispatch a service technician to the customer site to perform the replacement. Onsite labor under base warranty is limited to labor for replacement of parts that have been determined to be field-replaceable units (FRUs). Parts that are determined to be customer-replaceable units (CRUs) do not include onsite labor under base warranty.

If warranty terms include parts-only base warranty, Lenovo is responsible for delivering only replacement parts that are under base warranty (including FRUs) that will be sent to a requested location for self-service. Parts-only service does not include a service technician being dispatched onsite. Parts must be changed at customer's own cost and labor and defective parts must be returned following the instructions supplied with the spare parts.

Lenovo Service offerings are region-specific. Not all preconfigured support and upgrade options are available in every region. For information about Lenovo service upgrade offerings that are available in your region, refer to the following resources:

- Service part numbers in Lenovo Data Center Solution Configurator (DCSC):
<http://dcsc.lenovo.com/#/services>
- Lenovo Services Availability Locator
<http://lenovolocator.com/>

For service definitions, region-specific details, and service limitations, please refer to the following documents:

- Lenovo Statement of Limited Warranty for Infrastructure Solutions Group (ISG) Servers and System Storage
<http://pcsupport.lenovo.com/us/en/solutions/ht503310>
- Lenovo Data Center Services Agreement
<http://support.lenovo.com/us/en/solutions/ht116628>

Software maintenance

The ThinkAgile VX Series Integrated Systems (appliances) include one- (PRC only), three-, or five-year software support and subscription (matches the duration of the selected warranty period) that entitles customers to submit service requests to troubleshoot VMware software issues and receive code updates, including fixes, patches, and new software releases.

The Lenovo local support centers perform problem determination and resolution for hardware-related issues and escalate to VMware, on behalf of the customer, for software-related problem determination. VMware will contact the customer and will own the software-related problem resolution until closure.

For the VMware vSphere, vSAN, and vCenter Server software and subscription licenses purchased from Lenovo together with the ThinkAgile VX Series Integrated Systems, software support that is provided by VMware includes Production-level support with 24x7 phone and web coverage with the following target response times (priorities are defined by VMware based on the impact on productivity):

- Severity 1 (Critical: Substantial loss or disruption of service, significant risk of data loss): 30 minutes
- Severity 2 (Major: Operations are severely constrained, significant impact): 4 business hours
- Severity 3 (Minor: Non-critical loss of functionality, minimal impact): 8 business hours
- Severity 4 (Cosmetic: General questions): 12 business hours

For the VMware software and subscription licenses provided by the customer, software support that is provided by VMware is based on the support level included with these licenses.

Deployment services

The following optional Lenovo basic installation services are available for the ThinkAgile VX Series Integrated Systems (appliances):

- Unpacking and inspecting the systems
- Mounting the systems in a rack cabinet
- Connecting the systems to electrical power and network
- Checking and updating firmware to the latest levels
- Verifying operations
- Disposal of the packaging materials (within the customer site)

The following Lenovo deployment services are available for the ThinkAgile VX Series Integrated Systems to get customers up and running quickly:

- Conducting remote preparation and planning
- Verifying firmware versions and performing firmware updates, if needed
- Configuring XCC management settings
- Configuring hypervisor settings
- Configuring vSAN
- Configuring VMware vCenter Server and discovering hosts and storage
- Configuring Lenovo XClarity network settings and performing discovery and inventory
- Transferring knowledge
- Developing post-installation documentation

The following table lists ThinkAgile Health Check & Deployment offerings are available for ThinkAgile VX customers. These offerings are performed by Lenovo Professional Services.

- **Onsite Deployment:** Install, configure, and validate solution on-site, and conduct knowledge transfer.
- **Remote Deployment:** Install, configure, and validate solution remotely, and conduct knowledge transfer.
- **Remote Health Check:** Report & remediation of hardware and cluster health issues, including firmware and software updates.

Table 19. ThinkAgile Deployment offerings

| Part number | Description |
|-----------------------------------|--|
| Onsite deployment services | |
| 5MS7B00082 | ThinkAgile VX Onsite Deployment (up to 4 nodes) |
| 5MS7B00083 | ThinkAgile VX Onsite Deployment (additional node) |
| Remote deployment services | |
| 5MS7A87711 | ThinkAgile VX Remote Deployment (up to 4 nodes) |
| 5MS7A87712 | ThinkAgile VX Remote Deployment (additional node) |
| Remote Health Check | |
| 5MS7B00178 | ThinkAgile VX 1X Remote Health Check (up to 4 node cluster) |
| 5MS7B00179 | ThinkAgile VX 1X Remote Health Check (additional node) |
| 5MS7B00059 | ThinkAgile VX 1X Remote Health Check & Update (up to 4 node cluster) |
| 5MS7B00060 | ThinkAgile VX 1X Remote Health Check & Update (additional node) |

For more information, refer to the Data Center Implementation Services web page:

<https://www.lenovo.com/us/en/data-center/services/implementation-services/>

Regulatory compliance

The server conforms to the following standards:

- Energy Star 3.0
- FCC: Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 6, Class A
- UL/IEC 62368-1
- CAN/CSA-C22.2 No. 62368-1
- NOM-019
- Argentina IEC 62368-1
- Japan VCCI, Class A
- Australia/New Zealand AS/NZS CISPR 32, Class A; AS/NZS 60950.1
- IEC 60950-1 & IEC 62368-1 (CB Certificate and CB Test Report)
- China CCC (GB4943.1), GB9254 Class A, GB17625.1
- Taiwan BSMI CNS13438, Class A; CNS14336-1; section 5 of CNS15663
- Korea KN32, Class A; KN35
- Russia, Belorussia and Kazakhstan, EAC: TP TC 004/2011 (for Safety); TP TC 020/2011 (for EMC); TP EAC 037/2016 (for RoHS)
- CE Mark (EN55032 Class A, EN60950-1, EN62368-1, EN55024, EN55035, EN61000-3-2, (EU) 2019/424, EN 50581-1 and EN61000-3-3)
- CISPR 32, Class A
- TUV-GS (EN62368-1, EK1-ITB2000, AfPS GS 01 PAK Par. 3.1)
- India BIS certification

Lenovo Financial Services

Lenovo Financial Services reinforces Lenovo's commitment to deliver pioneering products and services that are recognized for their quality, excellence, and trustworthiness. Lenovo Financial Services offers financing solutions and services that complement your technology solution anywhere in the world.

We are dedicated to delivering a positive finance experience for customers like you who want to maximize your purchase power by obtaining the technology you need today, protect against technology obsolescence, and preserve your capital for other uses.

We work with businesses, non-profit organizations, governments and educational institutions to finance their entire technology solution. We focus on making it easy to do business with us. Our highly experienced team of finance professionals operates in a work culture that emphasizes the importance of providing outstanding customer service. Our systems, processes and flexible policies support our goal of providing customers with a positive experience.

We finance your entire solution. Unlike others, we allow you to bundle everything you need from hardware and software to service contracts, installation costs, training fees, and sales tax. If you decide weeks or months later to add to your solution, we can consolidate everything into a single invoice.

Our Premier Client services provide large accounts with special handling services to ensure these complex transactions are serviced properly. As a premier client, you have a dedicated finance specialist who manages your account through its life, from first invoice through asset return or purchase. This specialist develops an in-depth understanding of your invoice and payment requirements. For you, this dedication provides a high-quality, easy, and positive financing experience.

For your region-specific offers, please ask your Lenovo sales representative or your technology provider about the use of Lenovo Financial Services. For more information, see the following Lenovo website:

<https://www.lenovo.com/us/en/landingpage/lenovo-financial-services/>

Related publications and links

For more information, see these resources:

- Lenovo ThinkAgile VX Series
<https://www.lenovo.com/us/en/data-center/software-defined-infrastructure/ThinkAgile-VX-Series/p/WMD00000340>
- ThinkAgile VX - Best Recipes
<http://datacentersupport.lenovo.com/us/en/solutions/HT505302>
- VMware documentation
<https://docs.vmware.com/>
- ThinkSystem SR630 product guide:
<https://lenovopress.com/lp1049-thinksystem-sr630-server>
- Interactive 3D Tour of the ThinkSystem SR630:
<https://lenovopress.com/lp0672-3d-tour-thinksystem-sr630>
- Lenovo Press video walk-through of the ThinkSystem SR630:
<https://lenovopress.com/lp0699-thinksystem-sr630-server-video-walkthrough>

Related product families

Product families related to this document are the following:

- [2-Socket Rack Servers](#)
- [ThinkAgile VX Series for VMware vSAN](#)

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