Lenovo ThinkAgile MX630 V3 1U Integrated System and Certified Node

Product Guide

The Lenovo ThinkAgile MX630 V3 1U Integrated System and Certified Node are 2-socket 1U systems that are designed for deploying highly available, highly scalable hyper-converged infrastructure (HCI) and software-defined storage (SDS) from Microsoft on Lenovo enterprise platforms that feature the 5th Generation Intel Xeon Scalable processors (formerly codenamed "Emerald Rapids) and 4th Generation Intel Xeon Scalable processors (formerly codenamed "Sapphire Rapids). The MX630 V3 systems delivers fully validated and integrated Lenovo hardware and firmware that is certified for Microsoft Azure Local solutions.

The MX630 V3 systems are available either as an Integrated System or Certified Node:

ThinkAgile MX630 V3 Integrated System deliver fully validated and integrated Lenovo hardware and firmware, certified and preloaded with the latest Microsoft Azure Local software. The customers have the choice to purchase the licenses via subscription or via perpetual Azure Stack Local OEM license bundle. They also include ThinkAgile Premier support with one single point of contact for support of the hardware and software.

ThinkAgile MX630 V3 Certified Nodes deliver fully validated Lenovo hardware and firmware, certified and can be preloaded with latest Microsoft Azure Local software. The customers have the choice to purchase the licenses via subscription or via perpetual Azure Local OEM license bundle.

Figure 1. Lenovo ThinkAgile MX630 V3 1U Integrated System and Certified Node with 2.5-inch drive bays

Did you know?

The ThinkAgile MX630 V3 1U Integrated System and Certified Node are built on industry-leading Lenovo ThinkSystem servers that feature enterprise-class reliability, management, and security. They deliver fully validated and integrated hardware and firmware that is certified for Microsoft Azure Local solutions.

The MX630 V3 systems Integrated Systems offer ThinkAgile Premier Single Point of Support for quick 24/7 problem reporting and resolution.

Key features

Combining performance and flexibility, the MX630 V3 systems systems are a great choice for enterprises of all sizes. The systems offer a broad selection of processors, memory and drives, and offers high performance features that industries such as finance, healthcare and telco need. Outstanding reliability, availability, and serviceability (RAS) and high-efficiency design can improve your business environment and can help save operational costs.

ThinkAgile MX Series platforms offer the choice of Azure Local Integrated System (Appliance) or Azure Local Certified Node. These validated platforms help modernize on-premises infrastructure with pre-tested, pre-configured, and easy-to-order configurations, with seamless Azure integration. As a direct and indirect Microsoft Cloud Solution Provider, Lenovo offers cloud services and subscriptions through the Lenovo Cloud Marketplace, which enable HCI use cases with the ThinkAgile MX platforms.

- The integrated systems include the Azure Local operating system, which is delivered as an Azure subscription service via the Microsoft CSP program. It also includes ThinkAgile Premier support with one single point of contact for support of the hardware and warm-case transfer for software. Deployment and Update features in Windows Admin Center and tight integration with Lenovo XClarity make cluster management, hardware and software update management & enforcing site-wide policies easy for administrators. Azure hybrid by design, native integration with Azure services makes it easy for customers to adopt a hybrid cloud strategy for their workloads and use cases.

- The certified nodes deliver fully validated and integrated Lenovo hardware and firmware that is certified for Microsoft Azure Local solutions. These HCI Certified Nodes have the option of Windows Server 2019 Datacenter Edition for HCI functionality, and guest licenses are included.

Integrated System features

The ThinkAgile MX Integrated System offers the following key features:

- Quick and convenient path to implement a hyperconverged solution powered by the new Azure Local OS with Hyper-V virtualization, Microsoft Storage Spaces Direct (S2D), Software Defined Storage (SDS), and Software Defined Networking (SDN) network virtualization.

- Streamlined management of Azure Local with unified single-pane-of-glass for creating and managing VMs, S2D volumes, and virtual networks through Windows Admin Center.

- Consistent, low latency performance with hypervisor-embedded architecture, built-in read and write cache, and support for NVMe PCIe drives.

- Provides per-VM storage performance management with policy-driven Quality of Service (QoS) and continuous built-in monitoring and alerting with cluster-wide performance and capacity metrics.

- Can sustain drive, server, or component failures with built-in resiliency for continuous availability.

- GPU support to enable AI training, inferencing and data visualization scenarios, HPC workloads, virtual desktops and graphics intensive applications.

- Built on proven and reliable Lenovo ThinkSystem servers that provide compute power and space efficiency for a variety of edge workloads and applications.

- Provides comprehensive hardware management with advanced systems management capabilities with XClarity

- Delivers fully validated and integrated hardware and firmware that is certified for Microsoft Azure Local solutions.

- Ready for out-of-box deployment with the mandatory Azure Local OS preloaded, with the option to purchase a Windows Server 2019 Datacenter or Windows Server 2022 Datacenter license if unlimited guest OS VMs are desired.

- Includes Lenovo ThinkAgile Premier Single Point of Support for quick 24/7 problem reporting and resolution.

- Optional Lenovo deployment services to get customers up and running quickly.

Certified Node features

The ThinkAgile MX Certified Node offers the following key features:

- Quick and convenient path to implement a hyperconverged solution powered by Windows Server 2019 Datacenter or Windows Server 2022 Datacenter with Hyper-V virtualization, Microsoft Storage Spaces Direct (S2D), Software Defined Storage (SDS), and Software Defined Networking (SDN) network virtualization.
- Streamlined management of Azure Local with unified single-pane-of-glass for creating and managing VMs, S2D volumes, and virtual networks through Windows Admin Center.
- Consistent, low latency performance with hypervisor-embedded architecture, built-in read and write cache, and support for NVMe PCIe drives.
- Provides per-VM storage performance management with policy-driven Quality of Service (QoS) and continuous built-in monitoring and alerting with cluster-wide performance and capacity metrics.
- Can sustain drive, server, or component failures with built-in resiliency for continuous availability.
- GPU support to enable AI training, inferencing and data visualization scenarios, HPC workloads, virtual desktops and graphics intensive applications.
- Built on proven and reliable Lenovo ThinkSystem servers that provide compute power and space efficiency for a variety of edge workloads and applications.
- Provides comprehensive hardware management with advanced systems management capabilities.
- Delivers fully validated and integrated hardware and firmware that is certified for Microsoft Azure Local solutions.
- Ready for out-of-box deployment with the optional Windows Server 2019 Datacenter, Windows Server 2022 Data Center, or Azure Local OS preload.
- Provide flexibility in using the existing Microsoft Windows Server 2019 or 2022 enterprise license agreements or purchasing new software licenses from Microsoft or Lenovo.
- Optional Lenovo deployment services to get customers up and running quickly.

Hardware features

The ThinkAgile MX630 V3 1U Integrated System and Certified Node systems are based on the SR630 V3 and have the following hardware features:

Scalability and performance

The MX630 V3 systems offer numerous features to boost performance, improve scalability and reduce costs:

- Supports one or two fifth-generation Intel Xeon Processor Scalable processors
    - Up to 64 cores and 128 threads
    - Core speeds of up to 3.9 GHz
    - TDP ratings of up to 350 W
- Supports one or two fourth-generation Intel Xeon Processor Scalable processors
    - Up to 60 cores and 120 threads
    - Core speeds of up to 3.7 GHz
    - TDP ratings of up to 350 W
- Support for DDR5 memory DIMMs to maximize the performance of the memory subsystem:
    - Up to 32 DDR5 memory DIMMs, 16 DIMMs per processor
    - 8 memory channels per processor (2 DIMMs per channel)
    - Supports 1 DIMM per channel operating at 5600 MHz (5th Gen processors) or 4800 MHz (4th Gen processors)
    - Supports 2 DIMMs per channel operating at 4800 MHz (5th Gen processors) or 4400 MHz (4th Gen processors)
    - Using 256GB 3DS RDIMMs, the server supports up to 8TB of system memory
- Supports up to three single-width GPUs, each up to 75W for substantial processing power in a 1U

system.

- Supports up to 12x 2.5-inch hot-swap drive bays, by using combinations of front-accessible (up to 10 bays) and rear-accessible (2 bays).
- Supports 4x 3.5-inch drive bays for lower-cost high-capacity HDD storage.
- Supports up to 12x NVMe drives without oversubscription of PCIe lanes (1:1 connectivity) and without the need for additional NVMe adapters. The use of NVMe drives maximizes drive I/O performance, in terms of throughput and latency.
- Supports 12x SATA drives using the onboard SATA controller (no additional adapter needed), enabling lower cost, high capacity storage solution.
- Supports 12x SAS drives using a variety of 12Gb RAID controllers and SAS HBAs..
- Supports up to two externally accessible 7mm hot-swap drives with RAID functionality for operating system boot functions.
- Supports M.2 drives for convenient operating system boot functions. Available M.2 adapters support two M.2 drives in a RAID 1 configuration for performance and reliability.
- The server has a dedicated industry-standard OCP 3.0 small form factor (SFF) slot, with a PCIe 5.0 x16 interface, supporting a variety of Ethernet network adapters. A simple-swap mechanism with a thumbscrew and pull-tab enables tool-less installation and removal of the adapter. The adapter supports shared BMC network sideband connectivity to enable out-of-band systems management.
- The server offers PCI Express 5.0 I/O expansion capabilities that doubles the theoretical maximum bandwidth of PCIe 4.0 (32GT/s in each direction for PCIe Gen 5, compared to 16 GT/s with PCIe Gen 4 and 8 GT/s with PCIe Gen 3). A PCIe 5.0 x16 slot provides 128 GB/s bandwidth, enough to support a dual-port 200GbE network connection.
- The server offers up to three PCIe 5.0 slots, all with rear access, plus a slot dedicated to the OCP adapter.

Availability and serviceability

The MX630 V3 systems provide many features to simplify serviceability and increase system uptime:

- The server offers Single Device Data Correction (SDDC, also known as Chipkill), Adaptive Double-Device Data Correction (ADDDC, also known as Redundant Bit Steering or RBS), and memory mirroring for redundancy in the event of a non-correctable memory failure. Note: ADDDC in not supported with 9x4 RDIMMs.
- The server offers hot-swap drives, providing greater system uptime.
- Available internal M.2 RAID Boot Adapters support RAID-1 which can enable two SATA or two NVMe M.2 drives to be configured as a redundant pair.
- A pair of rear-accessible 7mm hot-swap boot drives can be accessed without removing the cover or powering down the server.
- The server has up to two hot-swap redundant power supplies and up to six hot-swap redundant fans to provide availability for business-critical applications.
- The light path diagnostics feature uses LEDs to lead the technician to failed (or failing) components, which simplifies servicing, speeds up problem resolution, and helps improve system availability.
- Solid-state drives (SSDs) offer more reliability and performance than traditional mechanical HDDs for greater uptime.
- Proactive Platform Alerts (including PFA and SMART alerts): Processors, voltage regulators, memory, internal storage (SAS/SATA HDDs and SSDs, NVMe SSDs, M.2 storage, flash storage adapters), fans, power supplies, server ambient and subcomponent temperatures. Alerts can be surfaced through the XClarity Controller 2 to managers such as Lenovo XClarity Administrator and Microsoft System Center. These proactive alerts let you take appropriate actions in advance of possible failure, thereby increasing server uptime and application availability.
- The built-in XClarity Controller 2 continuously monitors system parameters, triggers alerts, and

performs recovery actions in case of failures to minimize downtime.

- Built-in diagnostics in UEFI, using Lenovo XClarity Provisioning Manager, speed up troubleshooting tasks to reduce service time.
- Lenovo XClarity Provisioning Manager supports diagnostics and can save service data to a USB key drive or remote CIFS share folder for troubleshooting and reduce service time.
- Auto restart in the event of a momentary loss of AC power (based on power policy setting in the XClarity Controller 2 service processor)
- Offers a diagnostics port on the front of the server to allow you to attach an external diagnostics handset for enhanced systems management capabilities.
- Support for the XClarity Administrator Mobile app running on a supported smartphone or tablet and connected to the server through the service-enabled USB port, enables additional local systems management functions.
- Three-year or one-year customer-replaceable unit and onsite limited warranty (varies by geography), 9 x 5 next business day. Optional service upgrades are available.

Manageability and security

Systems management features simplify local and remote management of the MX630 V3 systems:

- The server includes an XClarity Controller 2 (XCC2) to monitor server availability. Optional upgrade to XCC Platinum to provide remote control (keyboard video mouse) functions, support for the mounting of remote media files (ISO and IMG image files), boot capture, power capping and new XCC2 Platinum features. New XCC2 Platinum features include System Guard, new security modes including a CNSA-compliant mode, FIPS 140-3 and NIST 800-193 support, and a new Neighbor Group feature.
- Lenovo XClarity Administrator offers comprehensive hardware management tools that help to increase uptime, reduce costs and improve productivity through advanced server management capabilities.
- UEFI-based Lenovo XClarity Provisioning Manager, accessible from F1 during boot, provides system inventory information, graphical UEFI Setup, platform update function, operating system installation function, and diagnostic functions.
- Support for Lenovo XClarity Energy Manager which captures real-time power and temperature data from the server and provides automated controls to lower energy costs.
- An integrated industry-standard Unified Extensible Firmware Interface (UEFI) enables improved setup, configuration, and updates, and simplifies error handling.
- Support for industry standard management protocols, IPMI 2.0, SNMP 3.0, Redfish REST API, serial console via IPMI
- An integrated hardware Trusted Platform Module (TPM) supporting TPM 2.0 enables advanced cryptographic functionality, such as digital signatures and remote attestation.
- Administrator and power-on passwords help protect from unauthorized access to the server.
- Supports Secure Boot to ensure only a digitally signed operating system can be used. Supported with HDDs and SSDs, as well as 7mm and M.2 drives.
- Industry-standard Advanced Encryption Standard (AES) NI support for faster, stronger encryption.
- Intel Execute Disable Bit functionality can prevent certain classes of malicious buffer overflow attacks when combined with a supported operating system.
- Intel Trusted Execution Technology provides enhanced security through hardware-based resistance to malicious software attacks, allowing an application to run in its own isolated space, protected from all other software running on a system.
- Additional physical security features are an available chassis intrusion switch and available lockable front bezel.

Energy efficiency

The MX630 V3 systems offer the following energy-efficiency features to save energy, reduce operational costs, and increase energy availability:

- Energy-efficient system board components help lower operational costs.
- Carbon offset is available at click of button. You can project the carbon emissions per device for an average lifecycle (up to 5 years). That information is available **here**
- High-efficiency power supplies with 80 PLUS Platinum and Titanium certifications
- Solid-state drives (SSDs) consume as much as 80% less power than traditional spinning 2.5-inch HDDs.
- The server uses hexagonal ventilation holes, which can be grouped more densely than round holes, providing more efficient airflow through the system and thus keeping your system cooler.
- Optional Lenovo XClarity Energy Manager provides advanced data center power notification, analysis, and policy-based management to help achieve lower heat output and reduced cooling needs.

Components and connectors

The ThinkAgile MX630 V3 1U Integrated System and Certified Node are based on the ThinkSystem SR630 V3 server.

The following figure shows the front of the MX630 V3 systems with 2.5-inch drives.
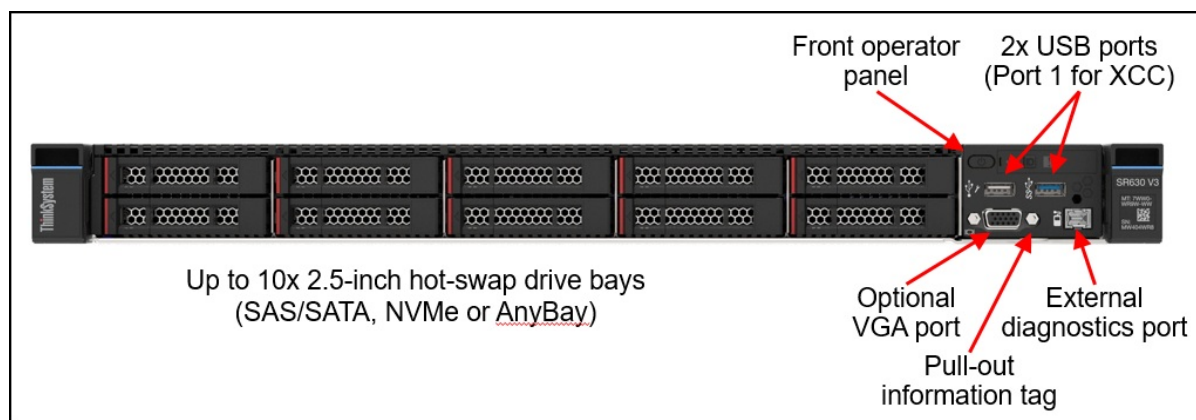
Figure 2. Front view of the MX630 V3 systems with 2.5-inch drives

The following figure shows the front of the MX630 V3 systems with 3.5-inch drives.
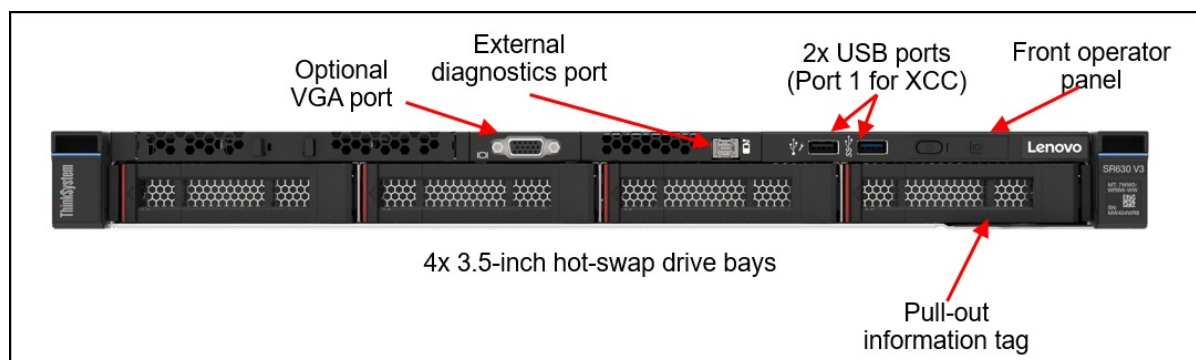
Figure 3. Front view of the MX630 V3 systems with 3.5-inch drives

The following figure shows the components visible from the rear of the server. As shown, there are four different configurations available, including two with rear-mounted drive bays: two 2.5-inch hot-swap drive bays (SAS, SATA or NVMe) or new 7mm thickness hot-swap drives (SATA or NVMe).
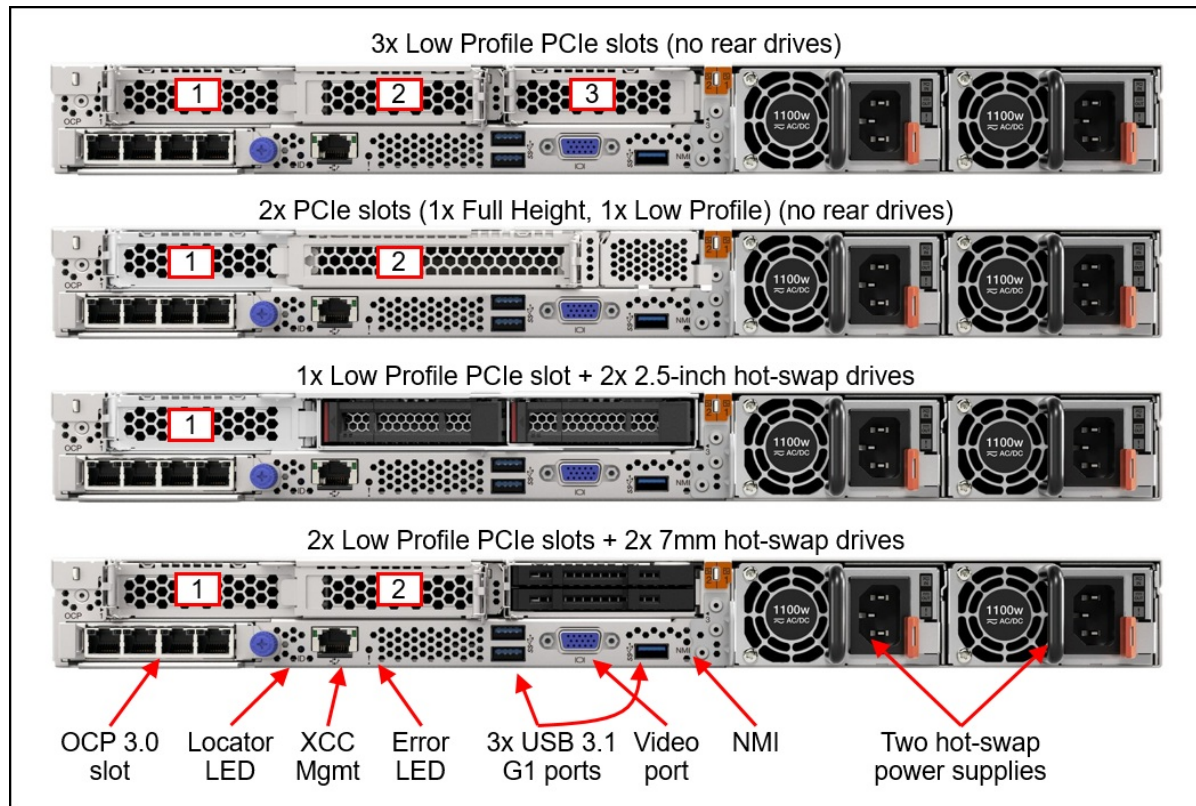
Figure 4. Rear views of the MX630 V3 systems

The following figure shows the locations of key components inside the systems.

Figure 5. Internal view of the MX630 V3 systems

Standard specifications

The ThinkAgile MX630 V3 1U Integrated System and Certified Node are based on the ThinkSystem SR630 V3 server.

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

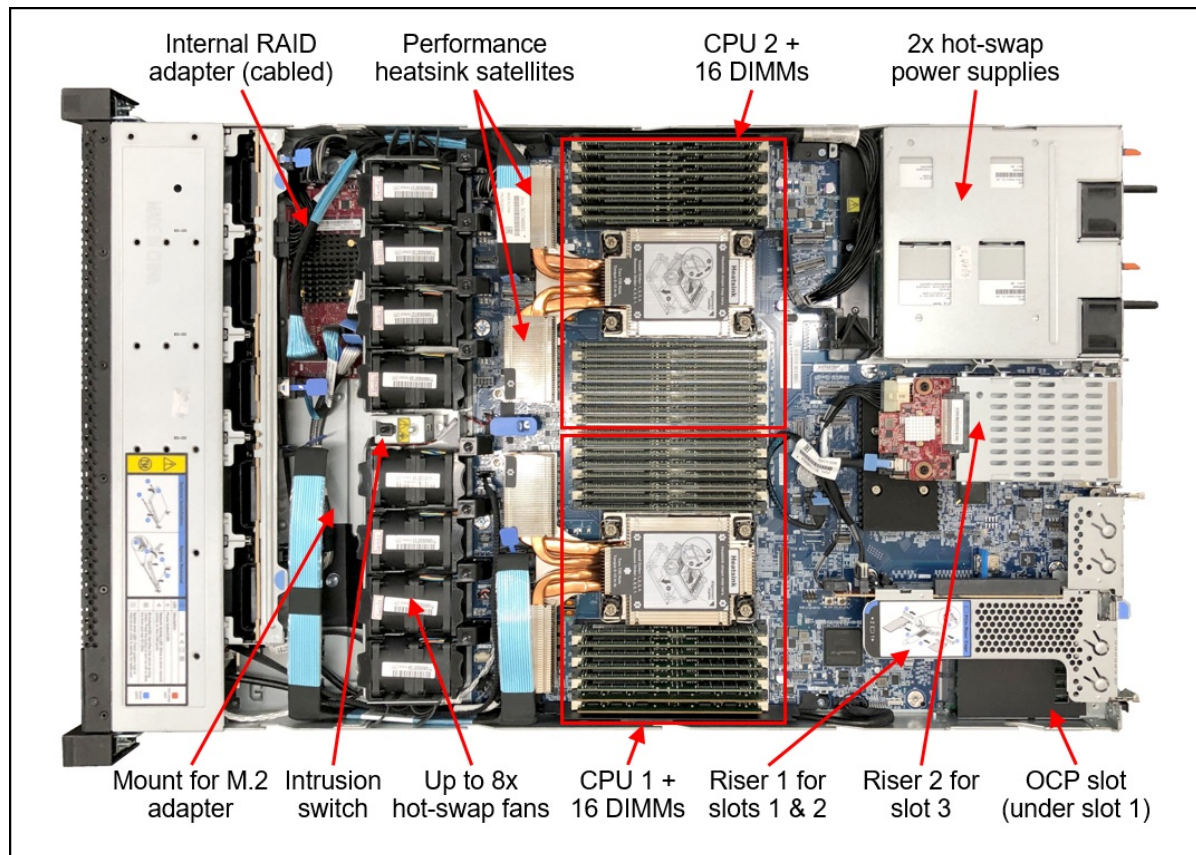Table 1. Comparison of features

	MX630 V3 Integrated System	MX630 V3 Certified Node
MX offering type	Integrated System	Certified Node
Target workloads	Entry/SMB, General Compute,	Entry/SMB, General Compute,
Base MTM	7D6UCTO1WW	7D6UCTO2WW
Form Factor	1U	1U
Base platform	SR630 V3	SR630 V3
CPU	1x or 2x Intel Xeon SP Gen 5 (Emerald Rapids) or Gen 4 (Sapphire Rapids)	1x or 2x Intel Xeon SP Gen 5 (Emerald Rapids) or Gen 4 (Sapphire Rapids)
Memory	32x DDR 5 5600 MHz (8TB maximum)	32x DDR 5 5600 MHz (8TB maximum)
Drive Bays	- Front bay choices: 10x 2.5" AnyBay 4x 3.5" SAS/SATA - Rear bay choices 2x 2.5" SAS/SATA or NVME (Optional)	- Front bay choices: 10x 2.5" AnyBay 4x 3.5" SAS/SATA - Rear bay choices 2x 2.5" SAS/SATA or NVME (Optional)
Drive Configuration	All Flash or Hybrid	All Flash or Hybrid
HBA	440-8i HBA 440-16i HBA	440-8i HBA 440-16i HBA
Boot drives	2x M.2 non-hot-swap SATA 2x 7mm hot-swap drives	2x M.2 non-hot-swap SATA 2x 7mm hot-swap drives
OCP networking	1x OCP 3.0 adapter: 1Gb, 10Gb, 25Gb	1x OCP 3.0 adapter: 1Gb, 10Gb, 25Gb
PCIe networking	Up to 3x adapters: 1Gb, 10Gb, 25Gb, 100Gb	Up to 3x adapters: 1Gb, 10Gb, 25Gb, 100Gb
GPUs	Supports up to 2x single-wide GPUs	Supports up to 2x single-wide GPUs
Hypervisor	- Azure Local OS preloaded - Windows Server 2019 Datacenter optional - Windows Server 2022 Datacenter optional	- Windows Server 2019 Datacenter optional - Windows Server 2022 Datacenter optional - Azure Local OS optional

The following table lists the standard specifications.

Table 2. Standard specifications

Components	Specification
Machine types	7D6U - 3 year warranty
Form factor	1U rack.
Processor	Supports one or two 5th generation Intel Xeon Scalable processor (formerly codenamed "Emerald Rapids") or 4th-generation Intel Xeon Scalable processor (formerly codenamed "Sapphire Rapids"). Supports up to 64 cores per 5th generation processor and up to 60 cores per 4th generation processor, core speeds of up to 3.9 GHz, and TDP ratings of up to 350 W.
Chipset	Intel C741 "Emmitsburg" chipset, part of the platform codenamed "Eagle Stream"

Components	Specification
Memory	32 DIMM slots with two processors (16 DIMM slots per processor). Each processor has 8 memory channels, with 2 DIMMs per channel (DPC). Lenovo TruDDR5 RDIMMs, 9x4 RDIMMs, and 3DS RDIMMs are supported. DIMM slots are shared between standard system memory and persistent memory. DIMMs operate at up to 5600 MHz at 1 DPC and up to 4400 MHz at 2 DPC.
Memory maximum	With RDIMMs: Up to 8TB by using 32x 256GB 3DS RDIMMs
Memory protection	ECC, SDDC (for x4-based memory DIMMs), ADDDC (for x4-based memory DIMMs excluding 9x4 RDIMMs, requires Platinum or Gold processors), and memory mirroring.
Drive bays	Front drive bays: • 10x 2.5-inch AnyBay • 4x 3.5-inch SAS/SATA Rear drive bays: • 2x 2.5-inch SAS/SATA • 2x 2.5-inch NVMe OS boot support: • Internal M.2 module supporting up to two M.2 SATA drives • Rear accessible 2x 7mm hot-swap drives, SATA or NVMe

Storage controller	• Onboard NVMe ports (RAID not supported)
	• 12 Gb SAS/SATA non-RAID:
	    ° 430-8i HBA
	    ° 430-16i HBA

Network interfaces	Dedicated OCP 3.0 SFF slot with PCIe 5.0 x16 host interface. Supports a variety of 2-port and 4-port adapters with 1GbE, 10GbE and 25GbE network connectivity. One port can optionally be shared with the XClarity Controller 2 (XCC2) management processor for Wake-on-LAN and NC-SI support.
PCI Expansion slots	Up to 3x PCIe slots (2x PCIe 5.0, 1x PCIe 4.0), all with rear access, plus a slot dedicated to the OCP adapter. Slot availability is based on riser selection and rear drive bay selection. Slot 3 requires two processors. Four choices for rear-access slots: • 3x PCIe x16 low-profile slots • 1x PCIe x16 full-height half-length slot + 1x PCIe x16 low-profile slot • 1x PCIe x16 low-profile slot (also supports 2x rear 2.5-inch drive bays) • 2x PCIe x16 low-profile slot (also supports 2x rear 7mm 2.5-inch drive bays)
GPU support	Supports up to 2x single-wide GPUs
Ports	Front: 1x USB 3.1 G1 (5 Gb/s) port, 1x USB 2.0 port (also for XCC local management), External diagnostics port, optional VGA port. Rear: 2x USB 3.1 G1 (5 Gb/s) ports and 1x USB 2.0 port, 1x VGA video port, 1x RJ-45 1GbE systems management port for XCC remote management. Optional DB-9 COM serial port (installs in slot 3). Optional second RJ-45 1GbE systems management port for XCC remote management (installed in OCP adapter slot). Internal: 1x USB 3.1 G1 connector for operating system or license key purposes

Components	Specification
Cooling	Up to 8x N+1 redundant hot swap 40 mm fans, configuration dependent. One fan integrated in each power supply.
Power supply	Up to two hot-swap redundant AC power supplies, 80 PLUS Platinum or 80 PLUS Titanium certification. 750 W, 1100 W and 1800 W AC options, supporting 220 V AC. 750 W and 1100 W options also support 110V input supply. In China only, all power supply options support 240 V DC. Also available is a 1100W power supply with a -48V DC input.
Video	Embedded graphics with 16 MB memory with 2D hardware accelerator, integrated into the XClarity Controller 2 management controller. Maximum resolution is 1920x1200 32bpp at 60Hz.
Hot-swap parts	Drives, power supplies, and fans.
Systems management	Operator panel with status LEDs. Optional External Diagnostics Handset with LCD display. Models with 8x 2.5-inch front drive bays can optionally support an Integrated Diagnostics Panel. XClarity Controller 2 (XCC2) embedded management based on the ASPEED AST2600 baseboard management controller (BMC), XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, and XClarity Energy Manager centralized server power management. Optional XCC Platinum to enable remote control functions and other features.
Security features	Chassis intrusion switch, Power-on password, administrator's password, Root of Trust module supporting TPM 2.0 and Platform Firmware Resiliency (PFR). Optional lockable front security bezel.
Software	- Integrated System: Azure Local preloaded - Certified Nodes: Windows Server 2019 Datacenter, Windows Server 2022 Datacenter, Azure Local OS (all optional)
Hardware warranty	- Integrated System: Three-, four-, or five-year customer-replaceable unit and onsite limited hardware warranty with ThinkAgile Premier 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. - Certified Node: Three, four, or five-year customer-replaceable unit and onsite limited warranty with selectable service levels: 9x5 coverage with next business day (NBD) parts delivered (base warranty), 9x5 coverage with NBD onsite response (Foundation Service), 24x7 coverage with 4-hour onsite response or 24-hour committed repair (select areas) (Essential Service), or 24x7 coverage with 2-hour onsite response or 6-hour committed repair (select areas) (Advanced Service). Also available are 1-year and 2-year post-warranty extensions, YourDrive YourData, and Enterprise Software Support.
Software maintenance	Three-, four-, or five-year software support and subscription (matches the duration of the selected warranty period).
Dimensions	Width: 440 mm (17.3 in.), height: 43 mm (1.7 in.), depth: 773 mm (30.4 in.).
Weight	Maximum weight: 20.2 kg (44.5 lb)

Models

Factory-integrated models of the appliances and certified nodes are configured by using the Lenovo Data Center Solution Configurator (DCSC), http://dcsc.lenovo.com

During the configuration process, you are selecting the base Configure-to-Order (CTO) model first, and then you are selecting components (processors, memory, drives, network adapters, and software) for that model.

The following table lists the base CTO models.

Table 3. Base CTO models

Base model	Description
7D6UCTO1WW	ThinkAgile MX630 V3 Integrated System
7D6UCTO2WW	ThinkAgile MX630 V3 Certified Node

Comparison with the ThinkSystem SR630 V3

The ThinkAgile MX630 V3 1U Integrated System and Certified Node are based on the ThinkSystem SR630 V3 server, however there are key differences:

- No persistent memory support
- No onboard SATA controller support
- No RAID adapter support for data drives
- No VROC RAID support for boot drives
- No SED drive support
- Fibre Channel support for data migration only
- No InfiniBand support

For details about the ThinkSystem SR630 V3, see the SR630 V3 product guide:
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server

Only certain network adapters have been certified for particular network traffic types in the Azure Local operating system. For details regarding which available network adapters can be used for each network traffic type, see Lenovo Certified Configurations for Azure Local – V2 Servers:
https://lenovopress.com/lp1520

To verify what specific hardware components are supported with the MX630 V3 systems, see the DCSC configurator:
https://dcsc.lenovo.com

Processors

The MX630 V3 systems supports processors in either the 5th Gen Intel Xeon Scalable Processor family or the 4th Gen Intel Xeon Scalable Processor family.

Topics in this section:

- 5th Gen Intel Xeon Scalable processors
- 4th Gen Intel Xeon Scalable processors

5th Gen Intel Xeon Scalable processors

The MX630 V3 systems support the following processors.

For details about these options, see the SR630 V3 product guide:
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#processors

Table 4. Processors

Feature	Description	Maximum supported	
		MX630 V3 IS	MX630 V3 CN
BYVP	Intel Xeon Silver 4514Y 16C 150W 2.0GHz Processor	2	2
BYW6	Intel Xeon Silver 4516Y+ 24C 185W 2.2GHz Processor	2	2
BYVU	Intel Xeon Gold 5512U 28C 185W 2.1GHz Processor	1	1
BYVW	Intel Xeon Gold 5515+ 8C 165W 3.2GHz Processor	2	2
BYW7	Intel Xeon Gold 5520+ 28C 205W 2.2GHz Processor	2	2
BYVX	Intel Xeon Gold 6526Y 16C 195W 2.8GHz Processor	2	2
BYWK	Intel Xeon Gold 6530 32C 270W 2.1GHz Processor	2	2
BYW0	Intel Xeon Gold 6534 8C 195W 3.9GHz Processor	2	2
BYVQ	Intel Xeon Gold 6538N 32C 205W 2.1GHz Processor	2	2
BYW8	Intel Xeon Gold 6538Y+ 32C 225W 2.2GHz Processor	2	2
BYVY	Intel Xeon Gold 6542Y 24C 250W 2.9GHz Processor	2	2
BYW1	Intel Xeon Gold 6544Y 16C 270W 3.6GHz Processor	2	2
BYVR	Intel Xeon Gold 6548N 32C 250W 2.8GHz Processor	2	2
BYVZ	Intel Xeon Gold 6548Y+ 32C 250W 2.5GHz Processor	2	2
BYW9	Intel Xeon Gold 6554S 36C 270W 2.2GHz Processor	2	2
BYW5	Intel Xeon Platinum 8558 48C 330W 2.1GHz Processor	2	2
BYWA	Intel Xeon Platinum 8558P 48C 350W 2.7GHz Processor	2	2
BYWE	Intel Xeon Platinum 8558U 48C 300W 2.0GHz Processor	1	1
BYW2	Intel Xeon Platinum 8562Y+ 32C 300W 2.8GHz Processor	2	2
BYWF	Intel Xeon Platinum 8568Y+ 48C 350W 2.3GHz Processor	2	2
BYWG	Intel Xeon Platinum 8570 56C 350W 2.1GHz Processor	2	2
BYWD	Intel Xeon Platinum 8571N 52C 300W 2.4GHz Processor	1	1
BYWH	Intel Xeon Platinum 8580 60C 350W 2.0GHz Processor	2	2
BYWC	Intel Xeon Platinum 8581V 60C 270W 2.0GHz Processor	1	1
BYWJ	Intel Xeon Platinum 8592+ 64C 350W 1.9GHz Processor	2	2
BYWB	Intel Xeon Platinum 8592V 64C 330W 2.0GHz Processor	2	2

4th Gen Intel Xeon Scalable processors

The MX630 V3 systems support the following processors.

For details about these options, see the SR630 V3 product guide:
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#processors

Table 5. Processors

Feature	Description	Maximum supported	
		MX630 V3 IS	MX630 V3 CN
BQ68	Intel Xeon Bronze 3408U 8C 125W 1.8GHz Processor	2	2
BQ64	Intel Xeon Silver 4410T 10C 150W 2.7GHz Processor	2	2

Feature	Description	Maximum supported	
		MX630 V3 IS	MX630 V3 CN
BQ67	Intel Xeon Silver 4410Y 12C 150W 2.0GHz Processor	2	2
BQ69	Intel Xeon Silver 4416+ 20C 165W 2.0GHz Processor	2	2
BQ63	Intel Xeon Gold 5415+ 8C 150W 2.9GHz Processor	2	2
BQ6L	Intel Xeon Gold 5416S 16C 150W 2.0GHz Processor	2	2
BQ6H	Intel Xeon Gold 5418N 24C 165W 1.8GHz Processor	2	2
BQ66	Intel Xeon Gold 5418Y 24C 185W 2.0GHz Processor	2	2
BQ65	Intel Xeon Gold 5420+ 28C 205W 2.0GHz Processor	2	2
BPPD	Intel Xeon Gold 6414U 32C 250W 2.0GHz Processor	1	1
BQ6C	Intel Xeon Gold 6416H 18C 165W 2.2GHz Processor	2	2
BQ6B	Intel Xeon Gold 6418H 24C 185W 2.1GHz Processor	2	2
BPQF	Intel Xeon Gold 6426Y 16C 185W 2.5GHz Processor	2	2
BQ6F	Intel Xeon Gold 6428N 32C 185W 1.8GHz Processor	2	2
BPPC	Intel Xeon Gold 6430 32C 270W 2.1GHz Processor	2	2
BPQC	Intel Xeon Gold 6434 8C 195W 3.7GHz Processor	2	2
BQ6E	Intel Xeon Gold 6434H 8C 195W 3.7GHz Processor	2	2
BQ6K	Intel Xeon Gold 6438M 32C 205W 2.2GHz Processor	2	2
BQ6D	Intel Xeon Gold 6438N 32C 205W 2.0GHz Processor	2	2
BQ62	Intel Xeon Gold 6438Y+ 32C 205W 2.0GHz Processor	2	2
BPQE	Intel Xeon Gold 6442Y 24C 225W 2.6GHz Processor	2	2
BPQB	Intel Xeon Gold 6444Y 16C 270W 3.6GHz Processor	2	2
BQ6A	Intel Xeon Gold 6448H 32C 250W 2.4GHz Processor	2	2
BPQD	Intel Xeon Gold 6448Y 32C 225W 2.1GHz Processor	2	2
BPPM	Intel Xeon Gold 6454S 32C 270W 2.2GHz Processor	2	2
BPQG	Intel Xeon Gold 6458Q 32C 350W 3.1GHz Processor	2	2
BPPH	Intel Xeon Platinum 8444H 16C 270W 2.9GHz Processor	2	2
BPPG	Intel Xeon Platinum 8450H 28C 250W 2.0GHz Processor	2	2
BPPB	Intel Xeon Platinum 8452Y 36C 300W 2.0GHz Processor	2	2
BPPF	Intel Xeon Platinum 8454H 32C 270W 2.1GHz Processor	2	2
BPPT	Intel Xeon Platinum 8458P 44C 350W 2.7GHz Processor	2	2
BPPN	Intel Xeon Platinum 8460H 40C 330W 2.2GHz Processor	2	2
BPPQ	Intel Xeon Platinum 8460Y+ 40C 300W 2.0GHz Processor	2	2
BPQA	Intel Xeon Platinum 8462Y+ 32C 300W 2.8GHz Processor	2	2
BPPU	Intel Xeon Platinum 8468 48C 350W 2.1GHz Processor	2	2
BPPE	Intel Xeon Platinum 8468H 48C 330W 2.1GHz Processor	2	2
BPPP	Intel Xeon Platinum 8468V 48C 330W 2.4GHz Processor	2	2
BN0N	Intel Xeon Platinum 8470 52C 350W 2.0GHz Processor	2	2
BPPJ	Intel Xeon Platinum 8470N 52C 300W 1.7GHz Processor	2	2
BN0P	Intel Xeon Platinum 8470Q 52C 350W 2.1GHz Processor	2	2
BN0M	Intel Xeon Platinum 8480+ 56C 350W 2.0GHz Processor	2	2
BPPS	Intel Xeon Platinum 8490H 60C 350W 1.9GHz Processor	2	2

Memory

5th Generation Memory options

The MX630 V3 systems support the following memory options.

For details about these options, see the SR630 V3 product guide:
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#memory-options

Table 6. Emerald Rapids Memory

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
RDIMMs - 5600 MHz				
4X77A88049	BWHW	ThinkSystem 32GB TruDDR5 5600MHz (1Rx4) 10x4 RDIMM	32	32
4X77A88639	BX8Y	ThinkSystem 48GB TruDDR5 5600MHz (1Rx4) 10x4 RDIMM	32	32
4X77A88052	BWHS	ThinkSystem 64GB TruDDR5 5600MHz (2Rx4) 10x4 RDIMM	32	32
4X77A88058	BWHV	ThinkSystem 96GB TruDDR5 5600MHz (2Rx4) RDIMM	32	32
4X77A88087	BWJE	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) RDIMM	32	32
4X77A88056	BWSL	ThinkSystem 24GB TruDDR5 5600MHz (1Rx8) RDIMM	32	32
4X77A88051	BWJC	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) RDIMM	32	32
4X77A88057	BWJD	ThinkSystem 48GB TruDDR5 5600MHz (2Rx8) RDIMM	32	32
4X77A90991	BZ4U	ThinkSystem 32GB TruDDR5 Performance+ 5600MHz (2Rx8) RDIMM	32	32
4X77A90992	BZ4V	ThinkSystem 64GB TruDDR5 Performance+ 5600MHz (2Rx4) 10x4 RDIMM	32	32
3DS RDIMMs - 5600 MHz				
4X77A88054	BWHU	ThinkSystem 128GB TruDDR5 5600MHz (4Rx4) 3DS RDIMM	32	32

4th Generation Memory options

The MX630 V3 systems support the following memory options.

For details about these options, see the SR630 V3 product guide:
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#memory-options

Table 7. Sapphire Rapids Memory

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
RDIMMs				
4X77A77483	BNW5	ThinkSystem 32GB TruDDR5 4800MHz (1Rx4) 9x4 RDIMM	32	32
4X77A77033	BKTN	ThinkSystem 64GB TruDDR5 4800MHz (2Rx4) 9x4 RDIMM	32	32
4X77A77029	BKTL	ThinkSystem 16GB TruDDR5 4800MHz (1Rx8) RDIMM	32	32
4X77A77031	BKTM	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) RDIMM	32	32
4X77A77030	BNF6	ThinkSystem 32GB TruDDR5 4800MHz (1Rx4) 10x4 RDIMM	32	32
4X77A77032	BNF9	ThinkSystem 64GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM	32	32
3DS RDIMMs				
4X77A77034	BNFC	ThinkSystem 128GB TruDDR5 4800MHz (4Rx4) 3DS RDIMM	32	32
4X77A77035	BNF8	ThinkSystem 256GB TruDDR5 4800MHz (8Rx4) 3DS RDIMM	32	32

Internal storage

Internal storage configurations of the MX630 V3 systems are as follows.

In this section:

- MX630 V3 IS and CN Hybrid
- MX630 V3 IS and CN All Flash
- Backplanes
- Boot drive enablement

MX630 V3 IS and CN Hybrid

Drive bay configurations are as follows:

- Front drive bays - choice of:
  - 4x 3.5-inch SAS/SATA hot-swap drive bays

- Rear drive bays - choice of:
  - 2x 2.5-inch (Optional)

For OS boot functionality, the server supports either:

- One or two M.2 SATA drives, installed in an M.2 adapter internal to the server.
- One or two 7mm hot-swap SATA or NVMe drives, accessible from the rear of the server. Not supported with configurations with 3.5-inch front drives

Configuration rules are as follows:

- All Hybrid storage configurations are two-tier, cache tier and capacity tier

- Drive type choices are as follows:
  - HDDs for capacity
  - SAS/SATA or NVMe SSDs for cache

- For cache drives, a minimum of 2 and maximum of 4 drives is required

- For configurations with 3.5-inch front drives, capacity drives are installed in the front bay and cache drives are installed in rear 2.5-inch bays

- The total cache storage must be a minimum of 10% of the total capacity storage

MX630 V3 IS and CN All Flash

Drive bay configurations are as follows:

- Front drive bays - choice of:
  - 10x 2.5-inch AnyBay hot-swap drive bays

- Rear drive bays - choice of:
  - 2x 2.5-inch (Optional)

For OS boot functionality, the server supports either:

- One or two M.2 SATA drives, installed in an M.2 adapter internal to the server.
- One or two 7mm hot-swap SATA or NVMe drives, accessible from the rear of the server

Configuration rules are as follows:

- All-flash configurations can be single-tier or two-tier storage:
  - To select a single-tier configuration in DCSC, select the drive you wish to use (from either the capacity or cache lists) and ensure that all other drive selections are set to None
  - To select a two-tier configuration in DCSC, select a quantity of cache drives and a quantity of capacity drives
- Drive choices for a single-tier configuration are as follows:

- Drives can be either SAS SSDs, SATA SDDs or NVMe SSDs (includes EDSFF)
- All drives must be the same feature code
- A minimum of 4 drives is required
- Drive choices for a two-tier configuration are as follows:
  - The following combinations are supported:
    - SAS SSD for cache and SAS/SATA SSD for capacity
    - NVMe SSD for both cache & capacity
    - NVMe SSD for cache and SAS/SATA SSD for capacity
  - All cache drives must be the same feature code and all capacity drives must be the same feature code
  - A minimum of 2 cache drives and a minimum of 4 capacity drives is required
  - The total cache storage must be a minimum of 10% of the total capacity storage

Backplanes

The choice of backplanes supported is listed in the following table.

For details about these options, including configuration rules, see the SR630 V3 product guide: https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#internal-storage

Table 8. Drive backplanes

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
Front 2.5-inch drive backplanes				
None	BB3T	ThinkSystem 1U 10x2.5" AnyBay Backplane	1	1
None	BLKC	ThinkSystem 1U 10x2.5" AnyBay Gen5 Backplane	1	1
None	BRQX	ThinkSystem 1U 2.5" 10 NVMe Gen5 Backplane	1	1
None	BCQQ	ThinkSystem 1U 10x2.5" NVMe Backplane	1	1
Front EDSFF drive backplane				
None	B981	ThinkSystem 1U 16xEDSFF Backplane	1	1
Front 3.5-inch drive backplanes				
None	B8L3	ThinkSystem 1U/2U 4x3.5" SAS/SATA Backplane	1	1
Rear - 2.5-inch drive backplanes				
None	BDY6	ThinkSystem 1U 2x2.5" NVMe Rear Backplane	1	1
None	B8MY	ThinkSystem 1U 2x2.5" SAS/SATA Rear Backplane	1	1
Backplane - 7mm drives				
None	BU0N	ThinkSystem 7mm SATA/NVMe 2-Bay Rear Enablement Kit v2	1	1
None	BS9U	7mm NVMe Array 1 RAID 1	1	1

Boot drive enablement

For OS boot functions, the systems also support one or two 7mm hot-swap drives at the rear of the server, or one or two M.2 drives installed on an adapter internal to the server. The following table lists the supported controllers/enablement kits for M.2 and 7mm boot drives.

For details about these options, including configuration rules, see the SR630 V3 product guide: https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#internal-storage

Configuration Note: For ThinkSystem M.2 SATA/x4 NVMe 2-Bay Enablement Kit (4Y37A79663):

- For SATA RAID use ThinkSystem M.2 SATA/x4 NVMe 2-Bay Enablement Kit and ThinkSystem

RAID 5350-8i for M.2 SATA Boot Enablement

Table 9. Boot drive enablement

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
M.2 enablement kits				
4Y37A79663	BM8X	ThinkSystem M.2 SATA/x4 NVMe 2-Bay Adapter	1	1
4Y37A09750	B8P9	ThinkSystem M.2 NVMe 2-Bay RAID Adapter	1	1
Controllers for RAID support of M.2 Drives				
None	BVL1	ThinkSystem RAID 5350-8i for M.2 SATA Boot Enablement	1	1
4Y37A90063	BYFF	ThinkSystem M.2 RAID B540i-2i SATA/NVMe Adapter	1	1
7mm enablement kits				
None	BU0N	ThinkSystem 7mm SATA/NVMe 2-Bay Rear Enablement Kit v2	1	1
Controllers for RAID support of 7mm drives				
None	BVL4	ThinkSystem Raid 540-8i for 7MM NVMe boot Enablement	1	1

Controllers for internal storage

The MX630 V3 systems support the following internal storage controllers.

For details about these options, see the SR630 V3 product guide:
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#controllers-for-internal-storage

Table 10. Controllers for internal storage

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
SAS/SATA HBA - PCIe 3.0				
4Y37A72481	BJHJ	ThinkSystem 4350-16i SAS/SATA 12Gb HBA	1	1
4Y37A72480	BJHH	ThinkSystem 4350-8i SAS/SATA 12Gb HBA	1	1
SAS/SATA HBA - PCIe 4.0				
4Y37A78602	BM50	ThinkSystem 440-16i SAS/SATA PCIe Gen4 12Gb HBA	1	1
4Y37A78601	BM51	ThinkSystem 440-8i SAS/SATA PCIe Gen4 12Gb HBA	1	1
NVMe adapters				
4C57A65446	B98C	ThinkSystem 4-Port PCIe Gen4 NVMe Retimer Adapter	1	1

Internal drive options

This section lists the supported drives:

- Boot drives
- Internal drives for MX630 V3 Integrated System
- Internal drives for MX630 V3 Certified Node

Boot drives

The MX630 V3 systems systems support the following drive for boot functions.

Table 11. Boot drives

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
M.2 SATA drives				
4XB7A82287	BQ1Y	ThinkSystem M.2 5400 PRO 480GB Read Intensive SATA 6Gb NHS SSD	2	2
4XB7A82288	BQ20	ThinkSystem M.2 5400 PRO 960GB Read Intensive SATA 6Gb NHS SSD	2	2
M.2 NVME drives				
4XB7A90102	BXMH	ThinkSystem M.2 PM9A3 960GB Read Intensive NVMe PCIe 4.0 x4 NHS SSD	2	2
7mm NVME drives				
4XB7A82853	BPZ4	ThinkSystem 7mm U.3 7450 PRO 960GB Read Intensive NVMe PCIe 4.0 x4 HS SSD	2	2
4XB7A82855	BPZ5	ThinkSystem 7mm U.3 7450 PRO 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	2	2
4XB7A82856	BPZ6	ThinkSystem 7mm U.3 7450 PRO 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	2	2
4XB7A90096	BXMN	ThinkSystem 7mm U.2 PM9A3 960GB Read Intensive NVMe PCIe 4.0 x4 HS SSD	2	2
4XB7A90097	BXMM	ThinkSystem 7mm U.2 PM9A3 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	2	2
4XB7A90098	BXML	ThinkSystem 7mm U.2 PM9A3 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	2	2

Internal drives for MX630 V3 Integrated System

The following table lists the drives support in the MX630 V3 Integrated System. The drives are classified as either Cache drives, Capacity drives, or both. The quantities listed in the table are the maximum supported for each drive option. For cache drives, a minimum of 2 and maximum of 4 drives is required.

Table 12. Drives supported in the MX630 V3 Integrated System

Part number	Feature	Description	All Flash		Hybrid	
			Cache	Capacity	Cache	Capacity
2.5-inch hot-swap 24 Gb SAS SSDs						
4XB7A80318	BNWC	ThinkSystem 2.5" PM1653 960GB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80319	BNWE	ThinkSystem 2.5" PM1653 1.92TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80320	BNWF	ThinkSystem 2.5" PM1653 3.84TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80321	BP3E	ThinkSystem 2.5" PM1653 7.68TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80322	BP3J	ThinkSystem 2.5" PM1653 15.36TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80323	BP3D	ThinkSystem 2.5" PM1653 30.72TB Read Intensive SAS 24Gb HS SSD	No	12	No	No

Part number	Feature	Description	All Flash		Hybrid	
			Cache	Capacity	Cache	Capacity
4XB7A80340	BNW8	ThinkSystem 2.5" PM1655 800GB Mixed Use SAS 24Gb HS SSD	12	12	12	No
4XB7A80341	BNW9	ThinkSystem 2.5" PM1655 1.6TB Mixed Use SAS 24Gb HS SSD	12	12	12	No
4XB7A80342	BNW6	ThinkSystem 2.5" PM1655 3.2TB Mixed Use SAS 24Gb HS SSD	12	12	12	No
4XB7A80343	BP3K	ThinkSystem 2.5" PM1655 6.4TB Mixed Use SAS 24Gb HS SSD	12	12	12	No
2.5-inch hot-swap 6 Gb SAS SSDs						
4XB7A82289	BQ21	ThinkSystem 2.5" 5400 MAX 480GB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A82290	BQ24	ThinkSystem 2.5" 5400 MAX 960GB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A82291	BQ22	ThinkSystem 2.5" 5400 MAX 1.92TB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A82292	BQ23	ThinkSystem 2.5" 5400 MAX 3.84TB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A17125	BA7Q	ThinkSystem 2.5" S4620 480GB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A17126	BA4T	ThinkSystem 2.5" S4620 960GB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A17127	BA4U	ThinkSystem 2.5" S4620 1.92TB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A17128	BK7L	ThinkSystem 2.5" S4620 3.84TB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A82259	BQ1P	ThinkSystem 2.5" 5400 PRO 480GB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A82260	BQ1R	ThinkSystem 2.5" 5400 PRO 960GB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A82261	BQ1X	ThinkSystem 2.5" 5400 PRO 1.92TB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A82262	BQ1S	ThinkSystem 2.5" 5400 PRO 3.84TB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A82263	BQ1T	ThinkSystem 2.5" 5400 PRO 7.68TB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A87525	BWKM	ThinkSystem 2.5" PM893a 960GB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A87526	BWKL	ThinkSystem 2.5" PM893a 1.92TB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A87527	BWKK	ThinkSystem 2.5" PM893a 3.84TB Read Intensive SATA 6Gb HS SSD	No	12	No	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

Part number	Feature	Description	All Flash		Hybrid	
			Cache	Capacity	Cache	Capacity
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
2.5-inch hot-swap PCIe 5.0 NVMe SSDs						
4XB7A93888	C0ZM	ThinkSystem 2.5" U.2 CD8P 1.6TB Mixed Use NVMe PCIe 5.0 x4 HS SSD	12	12	12	No
4XB7A93889	C0ZL	ThinkSystem 2.5" U.2 CD8P 3.2TB Mixed Use NVMe PCIe 5.0 x4 HS SSD	12	12	12	No
4XB7A93890	C0ZK	ThinkSystem 2.5" U.2 CD8P 6.4TB Mixed Use NVMe PCIe 5.0 x4 HS SSD	12	12	12	No
4XB7A93891	C0ZJ	ThinkSystem 2.5" U.2 CD8P 12.8TB Mixed Use NVMe PCIe 5.0 x4 HS SSD	12	12	12	No
4XB7A93480	C0BB	ThinkSystem 2.5" U.2 CD8P 1.92TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
4XB7A93481	C0BA	ThinkSystem 2.5" U.2 CD8P 3.84TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
4XB7A93482	C0B9	ThinkSystem 2.5" U.2 CD8P 7.68TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
4XB7A93483	C0B8	ThinkSystem 2.5" U.2 CD8P 15.36TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
4XB7A93484	C0B7	ThinkSystem 2.5" U.2 CD8P 30.72TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
2.5-inch hot-swap PCIe 4.0 NVMe SSDs						
4XB7B01867	C6MA	ThinkSystem 2.5" U.2 Solidigm P5520 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7B01868	C6MB	ThinkSystem 2.5" U.2 Solidigm P5520 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7B01869	C6MC	ThinkSystem 2.5" U.2 Solidigm P5520 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A13631	BNEQ	ThinkSystem 2.5" U.2 P5520 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7B01879	C6M2	ThinkSystem 2.5" U.2 Solidigm P5620 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7B01880	C6M3	ThinkSystem 2.5" U.2 Solidigm P5620 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7B01881	C6M4	ThinkSystem 2.5" U.2 Solidigm P5620 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A17136	BA4V	ThinkSystem 2.5" U.2 P5620 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95054	C2BG	ThinkSystem 2.5" U.3 7500 MAX 800GB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95055	C2BV	ThinkSystem 2.5" U.3 7500 MAX 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95056	C2BW	ThinkSystem 2.5" U.3 7500 MAX 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No

Part number	Feature	Description	All Flash		Hybrid	
			Cache	Capacity	Cache	Capacity
4XB7A95057	C2BF	ThinkSystem 2.5" U.3 7500 MAX 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95058	C2BX	ThinkSystem 2.5" U.3 7500 MAX 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95049	C2BY	ThinkSystem 2.5" U.3 7500 PRO 960GB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7A95050	C2BR	ThinkSystem 2.5" U.3 7500 PRO 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7A95051	C2BS	ThinkSystem 2.5" U.3 7500 PRO 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7A95052	C2BT	ThinkSystem 2.5" U.3 7500 PRO 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7A95053	C2BU	ThinkSystem 2.5" U.3 7500 PRO 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
3.5-inch hot-swap 6 Gb SAS HDDs						
7XB7A00051	AUU8	ThinkSystem 3.5" 4TB 7.2K SATA 6Gb Hot Swap 512n HDD	No	No	No	4
7XB7A00052	AUUA	ThinkSystem 3.5" 6TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
7XB7A00053	AUU9	ThinkSystem 3.5" 8TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
7XB7A00054	AUUB	ThinkSystem 3.5" 10TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
7XB7A00068	B118	ThinkSystem 3.5" 12TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
4XB7A13907	B497	ThinkSystem 3.5" 14TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
4XB7A13914	B7F0	ThinkSystem 3.5" 16TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
3.5-inch hot-swap 12 Gb SAS HDDs						
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	4
4XB7A13911	B7EZ	ThinkSystem 3.5" 16TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	No	No	4

Internal drives for MX630 V3 Certified Node

The following table lists the drives support in the MX630 V3 Certified Node. The drives are classified as either Cache drives, Capacity drives, or both. The quantities listed in the table are the maximum supported for each drive option. For cache drives, a minimum of 2 and maximum of 4 drives is required.

Table 13. Drives supported in the MX630 V3 Certified Node

Part number	Feature	Description	All Flash		Hybrid	
			Cache	Capacity	Cache	Capacity
2.5-inch hot-swap 24 Gb SAS SSDs						
4XB7A80318	BNWC	ThinkSystem 2.5" PM1653 960GB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80319	BNWE	ThinkSystem 2.5" PM1653 1.92TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80320	BNWF	ThinkSystem 2.5" PM1653 3.84TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80321	BP3E	ThinkSystem 2.5" PM1653 7.68TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80322	BP3J	ThinkSystem 2.5" PM1653 15.36TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80323	BP3D	ThinkSystem 2.5" PM1653 30.72TB Read Intensive SAS 24Gb HS SSD	No	12	No	No
4XB7A80340	BNW8	ThinkSystem 2.5" PM1655 800GB Mixed Use SAS 24Gb HS SSD	12	12	12	No
4XB7A80341	BNW9	ThinkSystem 2.5" PM1655 1.6TB Mixed Use SAS 24Gb HS SSD	12	12	12	No
4XB7A80342	BNW6	ThinkSystem 2.5" PM1655 3.2TB Mixed Use SAS 24Gb HS SSD	12	12	12	No
4XB7A80343	BP3K	ThinkSystem 2.5" PM1655 6.4TB Mixed Use SAS 24Gb HS SSD	12	12	12	No
2.5-inch hot-swap 6 Gb SAS SSDs						
4XB7A82289	BQ21	ThinkSystem 2.5" 5400 MAX 480GB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A82290	BQ24	ThinkSystem 2.5" 5400 MAX 960GB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A82291	BQ22	ThinkSystem 2.5" 5400 MAX 1.92TB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A82292	BQ23	ThinkSystem 2.5" 5400 MAX 3.84TB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A17125	BA7Q	ThinkSystem 2.5" S4620 480GB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A17126	BA4T	ThinkSystem 2.5" S4620 960GB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A17127	BA4U	ThinkSystem 2.5" S4620 1.92TB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A17128	BK7L	ThinkSystem 2.5" S4620 3.84TB Mixed Use SATA 6Gb HS SSD	No	12	No	No
4XB7A82259	BQ1P	ThinkSystem 2.5" 5400 PRO 480GB Read Intensive SATA 6Gb HS SSD	No	12	No	No

Part number	Feature	Description	All Flash		Hybrid	
			Cache	Capacity	Cache	Capacity
4XB7A82260	BQ1R	ThinkSystem 2.5" 5400 PRO 960GB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A82261	BQ1X	ThinkSystem 2.5" 5400 PRO 1.92TB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A82262	BQ1S	ThinkSystem 2.5" 5400 PRO 3.84TB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A82263	BQ1T	ThinkSystem 2.5" 5400 PRO 7.68TB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A87525	BWKM	ThinkSystem 2.5" PM893a 960GB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A87526	BWKL	ThinkSystem 2.5" PM893a 1.92TB Read Intensive SATA 6Gb HS SSD	No	12	No	No
4XB7A87527	BWKK	ThinkSystem 2.5" PM893a 3.84TB Read Intensive SATA 6Gb HS SSD	No	12	No	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
2.5-inch hot-swap PCIe 5.0 NVMe SSDs						
4XB7A93888	C0ZM	ThinkSystem 2.5" U.2 CD8P 1.6TB Mixed Use NVMe PCIe 5.0 x4 HS SSD	12	12	12	No
4XB7A93889	C0ZL	ThinkSystem 2.5" U.2 CD8P 3.2TB Mixed Use NVMe PCIe 5.0 x4 HS SSD	12	12	12	No
4XB7A93890	C0ZK	ThinkSystem 2.5" U.2 CD8P 6.4TB Mixed Use NVMe PCIe 5.0 x4 HS SSD	12	12	12	No
4XB7A93891	C0ZJ	ThinkSystem 2.5" U.2 CD8P 12.8TB Mixed Use NVMe PCIe 5.0 x4 HS SSD	12	12	12	No
4XB7A93480	C0BB	ThinkSystem 2.5" U.2 CD8P 1.92TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
4XB7A93481	C0BA	ThinkSystem 2.5" U.2 CD8P 3.84TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
4XB7A93482	C0B9	ThinkSystem 2.5" U.2 CD8P 7.68TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
4XB7A93483	C0B8	ThinkSystem 2.5" U.2 CD8P 15.36TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
4XB7A93484	C0B7	ThinkSystem 2.5" U.2 CD8P 30.72TB Read Intensive NVMe PCIe 5.0 x4 HS SSD	No	12	No	No
2.5-inch hot-swap PCIe 4.0 NVMe SSDs						
4XB7B01867	C6MA	ThinkSystem 2.5" U.2 Solidigm P5520 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	12	12	12	No

Part number	Feature	Description	All Flash		Hybrid	
			Cache	Capacity	Cache	Capacity
4XB7B01868	C6MB	ThinkSystem 2.5" U.2 Solidigm P5520 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7B01869	C6MC	ThinkSystem 2.5" U.2 Solidigm P5520 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A13631	BNEQ	ThinkSystem 2.5" U.2 P5520 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7B01879	C6M2	ThinkSystem 2.5" U.2 Solidigm P5620 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7B01880	C6M3	ThinkSystem 2.5" U.2 Solidigm P5620 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7B01881	C6M4	ThinkSystem 2.5" U.2 Solidigm P5620 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A17136	BA4V	ThinkSystem 2.5" U.2 P5620 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95054	C2BG	ThinkSystem 2.5" U.3 7500 MAX 800GB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95055	C2BV	ThinkSystem 2.5" U.3 7500 MAX 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95056	C2BW	ThinkSystem 2.5" U.3 7500 MAX 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95057	C2BF	ThinkSystem 2.5" U.3 7500 MAX 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95058	C2BX	ThinkSystem 2.5" U.3 7500 MAX 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	12	12	12	No
4XB7A95049	C2BY	ThinkSystem 2.5" U.3 7500 PRO 960GB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7A95050	C2BR	ThinkSystem 2.5" U.3 7500 PRO 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7A95051	C2BS	ThinkSystem 2.5" U.3 7500 PRO 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7A95052	C2BT	ThinkSystem 2.5" U.3 7500 PRO 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
4XB7A95053	C2BU	ThinkSystem 2.5" U.3 7500 PRO 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	12	No	No
3.5-inch hot-swap 6 Gb SAS HDDs						
7XB7A00051	AUU8	ThinkSystem 3.5" 4TB 7.2K SATA 6Gb Hot Swap 512n HDD	No	No	No	4
7XB7A00052	AUUA	ThinkSystem 3.5" 6TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
7XB7A00053	AUU9	ThinkSystem 3.5" 8TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
7XB7A00054	AUUB	ThinkSystem 3.5" 10TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
7XB7A00068	B118	ThinkSystem 3.5" 12TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
4XB7A13907	B497	ThinkSystem 3.5" 14TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4

Part number	Feature	Description	All Flash		Hybrid	
			Cache	Capacity	Cache	Capacity
4XB7A13914	B7F0	ThinkSystem 3.5" 16TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	No	No	4
3.5-inch hot-swap 12 Gb SAS HDDs						
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	4
4XB7A13911	B7EZ	ThinkSystem 3.5" 16TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	No	No	4

Network adapters

The MX630 V3 systems support the following networking options.

Only certain network adapters have been certified for particular network traffic types in the Azure Local operating system. For details regarding which available network adapters can be used for each network traffic type, see Lenovo Certified Configurations for Azure Local – V2 Servers:
https://lenovopress.com/lp1520

For details about the implementation of these networking options, see the SR630 V3 product guide:
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#i-o-expansion
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#network-adapters

Table 14. OCP network adapters

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
10 Gb Ethernet - 10GBASE-T				
4XC7A08236	B5ST	ThinkSystem Broadcom 57416 10GBASE-T 2-port OCP Ethernet Adapter	1	1
4XC7A08240	B5T4	ThinkSystem Broadcom 57454 10GBASE-T 4-port OCP Ethernet Adapter	1	1
4XC7A08278	BCD5	ThinkSystem Intel X710-T2L 10GBASE-T 2-port OCP Ethernet Adapter	1	1
4XC7A80268	BPPY	ThinkSystem Intel X710-T4L 10GBase-T 4-Port OCP Ethernet Adapter	1	1
25 Gb Ethernet				
4XC7A08237	BN2T	ThinkSystem Broadcom 57414 10/25GbE SFP28 2-Port OCP Ethernet Adapter	1	1
4XC7A80567	BPPW	ThinkSystem Broadcom 57504 10/25GbE SFP28 4-Port OCP Ethernet Adapter	1	1
4XC7A62582	BE4T	ThinkSystem Mellanox ConnectX-6 Lx 10/25GbE SFP28 2-Port OCP Ethernet Adapter	1	1
4XC7A08294	BCD4	ThinkSystem Intel E810-DA2 10/25GbE SFP28 2-Port OCP Ethernet Adapter	1	1
4XC7A80269	BP8L	ThinkSystem Intel E810-DA4 10/25GbE SFP28 4-Port OCP Ethernet Adapter	1	1

Table 15. PCIe network adapters

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
10GBASE-T Ethernet				
7ZT7A00496	AUKP	ThinkSystem Broadcom 57416 10GBASE-T 2-Port PCIe Ethernet Adapter	5	5
4XC7A08245	B5SU	ThinkSystem Broadcom 57454 10GBASE-T 4-port PCIe Ethernet Adapter	5	5
25 Gb Ethernet				
4XC7A08295	BCD6	ThinkSystem Intel E810-DA2 10/25GbE SFP28 2-Port PCIe Ethernet Adapter	3	3
4XC7A80267	BP8M	ThinkSystem Intel E810-DA4 10/25GbE SFP28 4-Port PCIe Ethernet Adapter	1	1
4XC7A62580	BE4U	ThinkSystem Mellanox ConnectX-6 Lx 10/25GbE SFP28 2-Port PCIe Ethernet Adapter	3	3
100 Gb Ethernet				
4XC7A08248	B8PP	ThinkSystem Mellanox ConnectX-6 Dx 100GbE QSFP56 2-port PCIe Ethernet Adapter	3	3

GPU adapters

The MX630 V3 systems support the following GPU options.

For details about these options, see the SR630 V3 product guide:
https://lenovopress.com/lp1600-thinksystem-sr630-v3-server#gpu-adapters

Table 16. GPU adapters

Part number	Feature	Description	Maximum supported	
			MX630 V3 IS	MX630 V3 CN
4X67A81547	BP05	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU	3	3
CTO Only	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	3	3

Software

The ThinkAgile MX Integrated Systems include the preloaded Azure Local operating system only and requires activation via a CSP such as Lenovo Cloud Marketplace, with the option to purchase a Windows Server 2022 Datacenter license if unlimited guest OS VMs are desired.

The ThinkAgile MX Certified Nodes can optionally have Windows Server 2022 Datacenter, or Azure Local OS preinstalled. Customers can use existing Windows Server Datacenter software licenses, or they can purchase new software licenses from Lenovo or Microsoft. If the licenses are purchased from Lenovo, Windows Server can be factory-installed or shipped in the box with the Certified Node for the installation at the customer site.

The following table lists the Windows Server Datacenter software options that are available for selection from Lenovo for Certified Nodes.

Table 17. Windows Server Datacenter software selection options (Certified Nodes only)

Feature code	Description
Windows Server 2022 Datacenter (Factory installed)	
BPA7	Windows Server Datacenter 2022 for Microsoft Azure Stack HCI - English (factory installed)
Windows Server 2022 Datacenter (Not preinstalled)	
BPA3	Windows Server Datacenter 2022 for Microsoft Azure Stack HCI - Multilanguage (not pre-installed)
BPA4	Windows Server Datacenter 2022 for Microsoft Azure Stack HCI - Simplified Chinese (not pre-installed)
BPA5	Windows Server Datacenter 2022 for Microsoft Azure Stack HCI - Traditional Chinese (not pre-installed)
BPA6	Windows Server Datacenter 2022 for Microsoft Azure Stack HCI - Japanese (not pre-installed)
Windows Server 2019 Datacenter (Factory installed)	
B6P2	Windows Server Datacenter 2019 for Microsoft Azure Stack HCI - English (factory installed)
Windows Server 2019 Datacenter (Not preinstalled)	
B6NY	Windows Server Datacenter 2019 for Microsoft Azure Stack HCI - Multilanguage (not pre-installed)
B6P0	Windows Server Datacenter 2019 for Microsoft Azure Stack HCI - Simplified Chinese (not pre-installed)
B6P1	Windows Server Datacenter 2019 for Microsoft Azure Stack HCI - Traditional Chinese (not pre-installed)
B6NZ	Windows Server Datacenter 2019 for Microsoft Azure Stack HCI - Japanese (not pre-installed)

Configuration notes:

- The selection of Windows Server software licenses is optional.
- The quantity of core-based licenses should be sufficient to cover all processor cores in the system.
- Current supported version of Azure Local OS is 23H2

Warranty and Support

The ThinkAgile MX Integrated Systems can be configured with a three-, four, or five-year hardware warranty with 24x7 ThinkAgile Premier Single Point of Support (Lenovo appliance hardware and Microsoft software) and various levels of coverage with a defined scope of services, including service hours, response time, term of service, and service agreement terms and conditions. For more information refer to the Lenovo Support Plan - MX Integrated System support plan, available from https://support.lenovo.com/us/en/solutions/HT511522.

The ThinkAgile MX Certified Nodes can be configured with a three-, four-, or five-year hardware warranty and various levels of service coverage with a defined scope of services, including service hours, response time, term of service, and service agreement terms and conditions.

The ThinkAgile MX630 V3 1U Integrated System and Certified Node have a 3-year base warranty:

- 7D6U- 1U Appliance - 3 year warranty
- 7D6U- 1U Certified Node - 3 year warranty

Our global network of regional support centers offers consistent, local-language support enabling you to vary response times and level of service to match the criticality of your support needs:

- **Standard Next Business Day** – Best choice for non-essential systems requiring simple maintenance.

- **Premier Next Business Day** – Best choice for essential systems requiring technical expertise from senior-level Lenovo engineers.

- **Premier 24x7 4-Hour Response** – Best choice for systems where maximum uptime is critical.

- **Premier Enhanced Storage Support 24x7 4-Hour Response** – Best choice for storage systems where maximum uptime is critical.

For more information, consult the brochure Lenovo Operational Support Services for Data Centers Services.

Deployment services

The MX systems can optionally include Lenovo deployment services to get customers up and running quickly.

The following Lenovo custom installation services are optional for both MX Premier Solutions and MX Certified Nodes:

- Unpacking and inspecting the systems
- Mounting the systems (rack cabinet, desktop, stack, bookshelf, wall or ceiling, or rack installation)
- 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 optional for both MX Premier Solutions and MX Certified Nodes:

- Conducting remote preparation and planning
- Verifying firmware versions and performing firmware updates, if needed
- Configuring XClarity Controller management settings
- Configuring Storage Spaces Direct
- Configuring Microsoft System Center and discovering hosts and storage (if System Center is used)
- Configuring Lenovo XClarity Administrator network settings and performing discovery and inventory (if XClarity is selected)
- Transferring knowledge
- Developing post-installation documentation

The following table lists ThinkAgile Health Check & Deployment offerings are available for ThinkAgile MX 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 18. ThinkAgile Health Check & Deployment offerings

Part number	Description
Onsite deployment services	
5MS7B09464	ThinkAgile MX Onsite Deployment (up to 2 nodes)
5MS7B09465	ThinkAgile MX Onsite Deployment (additional node)
Remote deployment services	
5MS7B09466	ThinkAgile MX Remote Deployment (up to 2 nodes)
5MS7B09467	ThinkAgile MX Remote Deployment (additional node)
Remote Health Check	
5MS7B00049	ThinkAgile MX 1X Remote Health Check (per 2-4 node cluster)
5MS7B00050	ThinkAgile MX 1X Remote Health Check (additional node)
5MS7B00051	ThinkAgile MX 1X Remote Health Check & Update (per 2-4 node cluster)
5MS7B00052	ThinkAgile MX 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/

Lenovo TruScale

Lenovo TruScale XaaS is your set of flexible IT services that makes everything easier. Streamline IT procurement, simplify infrastructure and device management, and pay only for what you use – so your business is free to grow and go anywhere.

Lenovo TruScale is the unified solution that gives you simplified access to:

- The industry's broadest portfolio – from pocket to cloud – all delivered as a service
- A single-contract framework for full visibility and accountability
- The global scale to rapidly and securely build teams from anywhere
- Flexible fixed and metered pay-as-you-go models with minimal upfront cost
- The growth-driving combination of hardware, software, infrastructure, and solutions – all from one single provider with one point of accountability.

For information about Lenovo TruScale offerings that are available in your region, contact your local Lenovo sales representative or business partner.

Lenovo Financial Services

Why wait to obtain the technology you need now? No payments for 90 days and predictable, low monthly payments make it easy to budget for your Lenovo solution.

- **Flexible**

  Our in-depth knowledge of the products, services and various market segments allows us to offer greater flexibility in structures, documentation and end of lease options.

- **100% Solution Financing**

  Financing your entire solution including hardware, software, and services, ensures more predictability in your project planning with fixed, manageable payments and low monthly payments.

- **Device as a Service (DaaS)**

  Leverage latest technology to advance your business. Customized solutions aligned to your needs. Flexibility to add equipment to support growth. Protect your technology with Lenovo's Premier Support service.

- **24/7 Asset management**

  Manage your financed solutions with electronic access to your lease documents, payment histories, invoices and asset information.

- **Fair Market Value (FMV) and $1 Purchase Option Leases**

  Maximize your purchasing power with our lowest cost option. An FMV lease offers lower monthly payments than loans or lease-to-own financing. Think of an FMV lease as a rental. You have the flexibility at the end of the lease term to return the equipment, continue leasing it, or purchase it for the fair market value. In a $1 Out Purchase Option lease, you own the equipment. It is a good option when you are confident you will use the equipment for an extended period beyond the finance term. Both lease types have merits depending on your needs. We can help you determine which option will best meet your technological and budgetary goals.

Ask your Lenovo Financial Services representative about this promotion and how to submit a credit application. For the majority of credit applicants, we have enough information to deliver an instant decision and send a notification within minutes.

Seller training courses

The following sales training courses are offered for employees and partners (login required). Courses are listed in date order.

1. **Lenovo Data Center Product Portfolio**
   2025-06-11 | 20 minutes | Employees and Partners

   This course introduces the Lenovo data center portfolio, and covers servers, storage, storage networking, and software-defined infrastructure products. After completing this course about Lenovo data center products, you will be able to identify product types within each data center family, describe Lenovo innovations that this product family or category uses, and recognize when a specific product should be selected.

   Course objectives:
   1.Identify product types within each data center family
   2.Describe the features of the product family or category
   3.Recognize when a specific product should be selected

   Tags: Advanced DataCenter, DataCenter Products, Server, ThinkAgile, ThinkEdge, ThinkSystem

   Published: 2025-06-11
   Length: 20 minutes

   Start the training:
   Employee link: Grow@Lenovo
   Partner link: Lenovo 360 Learning Center

   Course code: SXXW1110r8

2. **VTT: Nutanix Integration in XClarity One - SAM - May 2025**
   2025-06-10 | 56 minutes | Employees Only

   Please join this session as our speaker Sorin Tacu, will be sharing us a preview of SAM (Solutions Advanced Manager) - a powerful new tool developed by the ThinkAgile HX team in collaboration with XClarity One. Designed to seamlessly integrate the Nutanix Solution into XClarity One, SAM is set to streamline solution management and drive greater value for our customers. Get a first look at its future capabilities and learn more about it.

   Tags: Nutanix, XClarity

   Published: 2025-06-10
   Length: 56 minutes

   Start the training:
   Employee link: Grow@Lenovo

   Course code: DVSYS217

3. **Lenovo Cloud Architecture VTT: Drive Hybrid Cloud Conversations with ThinkAgile MX V4 Solutions**
2025-06-10 | 73 minutes | Employees Only

Join Amit Kulkarni, Lenovo Sr. Product Manager and Adam Mandelbloom, Lenovo Technical Marketing Manager for a focused session on the latest ThinkAgile MX V4 solutions with 6th Gen Intel® Xeon® Scalable processors, delivering top-tier performance, efficiency, and scalability for hybrid cloud and AI workloads. We'll explore how these advancements combined with Azure Local and Azure Arc, are transforming how businesses manage on-prem and cloud environments through a unified control plane.
Key topics include:
• Hybrid Cloud Integration with Azure Arc, AKS, and Azure Virtual Desktop optimized for local HCI environments
• VMware-to-Azure Local Migration strategies for customers looking to modernize legacy virtualization platforms

Tags: Client Virtualization, Cloud, Microsoft, Software Defined Infrastruture (SDI), ThinkAgile

Published: 2025-06-10
Length: 73 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DVCLD223

4. **Lenovo Cloud Architecture VTT Follow up: Getting Started with ScopeSys: A Beginner's Guide**
2025-06-10 | 45 minutes | Employees Only

This training webinar on Scopesys sizing tool from Acuutech is a follow up to the recent webinar that occurred in February 2025. This training is designed to provide you as new users with an introduction to ScopeSys solution-scoping platform. This session will walk you through the essential first steps of getting started, including system access, navigation, and setup. We'll then dive into how to effectively capture a client's requirements and import OneIQ and RVTools output within the platform to leverage ScopeSys's intelligent recommendation engine to identify the most appropriate, tailored solution. Finally, we'll wrap up by showing you where to access helpful resources, tools, and support so you can continue building confidence and efficiency in using the tool.

David Monks, Software Developer for Acuutech is our guest speaker and leading you through this training session.
Agenda:
1. Welcome & Objectives
2. What is ScopeSys Used For?
3. How to Get Started
4. Entering a Client's Requirements and Importing OneIQ and RVTools output
5. Choosing a Solution
6. Where to Get Further Help
7. Q&A

Tags: Client Virtualization, Cloud, Microsoft, Sales Tools, Software Defined Infrastruture (SDI)

Published: 2025-06-10
Length: 45 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DVCLD222

5. **Partner Technical Webinar - ThinkAgile V4**
   2025-06-09 | 60 minutes | Employees and Partners

   In this 60-minute replay, Pawan Misra, Lenovo SDI Product Manager and Adam Mandelbloom, Lenovo SDI Technical Marketing Manager, reviewed the newly announced ThinkAgile V4 systems for HX, VX and MX.

   Tags: Microsoft, Nutanix, VMware

   Published: 2025-06-09
   Length: 60 minutes

   > **Start the training:**
   > Employee link: Grow@Lenovo
   > Partner link: Lenovo 360 Learning Center

   Course code: JUN0625

6. **Family Portfolio: ThinkAgile Systems**
   2025-04-30 | 45 minutes | Employees and Partners

   This course covers the foundational components of the ThinkAgile family, including server configurations, key system differences, and the unique features of the HX, MX, and VX product families.
   By the end of this course, you should be able to:
   •List the ThinkSystem and ThinkEdge servers that the ThinkAgile family is based on
   •Explain the difference between Certified Nodes and Integrated Systems
   •List two features each of the HX, MX, and VX families

   Tags: ThinkAgile, ThinkSystem

   Published: 2025-04-30
   Length: 45 minutes

   > **Start the training:**
   > Employee link: Grow@Lenovo
   > Partner link: Lenovo 360 Learning Center

   Course code: SXSW2150r2

7. **Partner Technical Webinar - Storage Announcements**
   2025-04-29 | 60 minutes | Employees and Partners

   In this 60-minute replay, the April 23 Storage Announcement was presented. Adam Mandelbloom, Lenovo Technical Marketing Manager, presented the ThinkAgile announcements. Next, Roger Yarosh, Senior Storage Product Manager, presented the DG and DM announcements.

   Tags: Data Management, ThinkAgile

   Published: 2025-04-29
   Length: 60 minutes

   > **Start the training:**
   > Employee link: Grow@Lenovo
   > Partner link: Lenovo 360 Learning Center

   Course code: 042525

8. **Azure Local 101**
   2025-04-14 | 60 minutes | Employees and Partners

   In this 60-minute replay, Amit Kulkarni, Lenovo WW Azure Local / ThinkAgileMX Product Manager presented the basics of Azure Local. Amit reviewed Azure Local, licensing options and ThinkAgile MX models. Aaron Rothfuss NA Microsoft Product Manager contributed with recent uses cases for Azure Local.

   Tags: Microsoft, ThinkAgile

   Published: 2025-04-14
   Length: 60 minutes

   Start the training:
   Employee link: Grow@Lenovo
   Partner link: Lenovo 360 Learning Center

   Course code: 041125

9. **Think AI Weekly: Simplifying AI Deployments with ThinkAgile**
   2025-04-11 | 54 minutes | Employees Only

   Please view this session to hear Adam Mandelbloom, Technical Marketing Manager for ISG explain these topics:

   -Overall value proposition of ThinkAgile in AI solutions
   -Use cases for ThinkAgile HX
   -Use cases for ThinkAgile VX and MX

   Tags: Artificial Intelligence (AI), ThinkAgile

   Published: 2025-04-11
   Length: 54 minutes

   Start the training:
   Employee link: Grow@Lenovo

   Course code: DTAIW137

10. **Lenovo VTT Cloud Architecture Session Lenovo ThinkAgile MX using Acuutech ScopeSys Sizing Tool**
2025-02-21 | 60 minutes | Employees Only

Complex clustered system design and ordering in seconds, not days with ScopeSys.

Are you finding designing Azure Local (Azure Stack HCI) and Windows Server solutions complicated? Taking hours or even days to work out the correct server specifications, networking and services required to meet your customer needs? With ScopeSys from Acuutech, go from customer requirements to full solution design and ordering in seconds.

Learn how ScopeSys from Acuutech, makes designing complex Azure Local and clustered Windows Server solution simple, from simple edge scenarios to large datacenter replacements, including multi-site topologies.
With a workload and requirements centric approach, design based on what your clients are using; VM, Kubernetes, VDI and GPU accelerated workloads, moving beyond traditional hardware component-based design.

Join Philip Moss, Acuutech Chief Product Officer, for this 90-minute, interactive session with live demos and Q&A, where he will demonstrate how easy it is to design both simple and complex solutions with ease. Even better, come armed with some of your active opportunities and we can build the correct solution for your next client together.

Tags: Cloud, Microsoft, Sales Tools, Technical Sales, ThinkAgile

Published: 2025-02-21
Length: 60 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DVCLD219

11. **Lenovo Cloud Architecture VTT: Azure Migrate for migrating VMware VMs to Azure Local instance based on Lenovo MX**
2025-01-29 | 70 minutes | Employees Only

Now customers can use the Azure Migrate platform to move on-premises VMware VMs to Azure Local instance based on Lenovo MX.
Azure Migrate is a central hub for tools to discover, assess, and migrate on-premises servers, apps, and data to the Microsoft Azure cloud. Azure Local (previously Azure Stack HCI) is a hyperconverged infrastructure system solution that hosts virtualized Windows and Linux workloads in a hybrid environment, on premise on Lenovo ThinkAgile MX.

Please join Per Ljungstrom, Lenovo Principal TC, EMEA for this informative webinar.

Tags: Cloud, Microsoft, Technical Sales, Technology solutions, ThinkAgile

Published: 2025-01-29
Length: 70 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DVCLD218

12. **Selling On Prem Value - Private Cloud and Private AI**
2024-12-13 | 40 minutes | Employees Only

This course provides Lenovo Sellers with a series of five videos that are designed to help you better articulate our joint value in the Private Cloud and Private AI solution opportunity. After completing this course, Lenovo Sellers should be prepared to elevate customer discussions by transitioning from product features to explaining value-driven benefits, enabling a deeper understanding of the strategic impact for their business.

Tags: Artificial Intelligence (AI), Industry solutions, Technology solutions, ThinkAgile, VMware

Published: 2024-12-13
Length: 40 minutes

> **Start the training:**
> Employee link: Grow@Lenovo

Course code: DVMB101

13. **Lenovo Client Virtualization Solution Options and Concept**
2024-12-10 | 30 minutes | Employees and Partners

This 30-minute e-learning is designed to give Lenovo technical, general sellers and partners detailed information about the LCV solution options and best practices to ensure alignment with the customer on the solution concept.

Tags: Client Virtualization, Microsoft, Storage, ThinkAgile, ThinkSystem, VMware

Published: 2024-12-10
Length: 30 minutes

> **Start the training:**
> Employee link: Grow@Lenovo
> Partner link: Lenovo 360 Learning Center

Course code: DCV234r4

14. **Partner Technical Webinar - Overview - Azure Stack HCI**
2024-11-19 | 60 minutes | Employees and Partners

November 15, 2024 – In this 60-minute webinar Aaron Rothfuss, and Philip Moss from Acuutech share the positioning of Azure Stack HCI, Azure Migrate, and Acuutech SCOPSIS.

Tags: Microsoft, ThinkAgile

Published: 2024-11-19
Length: 60 minutes

> **Start the training:**
> Employee link: Grow@Lenovo
> Partner link: Lenovo 360 Learning Center

Course code: 111524

15. **Partner Technical Webinar - Data Center 101 - Why HCI? Why 3-tier?**
2024-11-14 | 60 minutes | Employees and Partners

October 11, 2024 – In this 60-minute webinar Alex Docherty, Channel Technical Strategist, discussed When to HCI vs 3 Tier.

Tags: ThinkAgile, ThinkSystem

Published: 2024-11-14
Length: 60 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: 101124

16. **ThinkAgile Solutions for AI - Security and Compliance Considerations**
2024-10-01 | 15 minutes | Employees and Partners

This course, tailored specifically for Lenovo and its partner technical sellers, is designed to equip participants with essential knowledge and skills to effectively assess security measures and address compliance considerations for ThinkAgile Solutions for AI.

Upon completion of this training, you will be able to:
• Describee security features of ThinkAgile for AI data protection.
• Explain how to mitigate risk and address compliance considerations in AI deployments.

Last Updated: September 2024

Tags: Artificial Intelligence (AI), High-Performance Computing (HPC), ThinkAgile

Published: 2024-10-01
Length: 15 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DCLDAI203

17. **Integration of ThinkAgile and AI**
    2024-09-11 | 25 minutes | Employees and Partners

    Designed specifically for Lenovo and its partner technical sellers, this course aims to equip you with the knowledge and skills to effectively communicate the integration of ThinkAgile Solutions and AI.

    Upon completion of this training, you will be able to:
    •Highlight the advantages of using ThinkAgile for AI workloads
    •Explore how ThinkAgile platforms are specifically optimized for AI

    Last Updated: September 2024

    Tags: Artificial Intelligence (AI), ThinkAgile

    Published: 2024-09-11
    Length: 25 minutes

    > **Start the training:**
    > Employee link: Grow@Lenovo
    > Partner link: Lenovo 360 Learning Center

    Course code: DCLDAI204

18. **Key Features of Lenovo ThinkAgile Solutions for AI**
    2024-09-10 | 15 minutes | Employees and Partners

    Designed specifically for Lenovo and its partner technical sellers, this course aims to equip you with the knowledge and skills to effectively communicate the key features of ThinkAgile Solutions for AI. By completing this course, you'll be better prepared to understand customer needs and present the most suitable AI solutions, ensuring successful engagements and driving value for your clients.

    In this course, you will learn how to:
    • Present compute capabilities for AI processing
    • Articulate optimized storage solutions with ThinkAgile for high-speed AI performance
    • Identify essential networking considerations for ThinkAgile AI workloads
    • Present ThinkAgile AI Ready solutions

    Last Updated: September 2024

    Tags: Artificial Intelligence (AI), ThinkAgile

    Published: 2024-09-10
    Length: 15 minutes

    > **Start the training:**
    > Employee link: Grow@Lenovo
    > Partner link: Lenovo 360 Learning Center

    Course code: DCLDAI201

19. **ThinkAgile Solutions for AI - Sales Strategies and Messaging**
2024-09-06 | 15 minutes | Employees and Partners

This course is designed exclusively for Lenovo and its partner technical sales teams, with the goal of empowering you with the knowledge and strategies necessary to effectively engage customers in conversations about ThinkAgile Solutions for AI.

In this course, you'll learn how to:
• Identify customer pain points.
• Recommend ThinkAgile Solutions for AI tailored to those needs. And lastly,
• Communicate the benefits of ThinkAgile for AI to key stakeholders.

Last Updated: September 2024

Tags: Artificial Intelligence (AI), ThinkAgile

Published: 2024-09-06
Length: 15 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DCLDAI202

20. **Position Lenovo ThinkAgile Solutions for AI**
2024-08-19 | 10 minutes | Employees and Partners

Designed specifically for Lenovo and partner technical sellers, this course aims to equip you with the knowledge and skills necessary to effectively evaluate and position ThinkAgile Solutions for AI to your customers. By completing this course, you will be better prepared to understand customer needs and present the most suitable AI solutions, ensuring successful engagements and driving value for your clients.

In this course, you will learn how to position ThinkAgile Solutions for AI to your customers by:
•Evaluating the key challenges in the enterprise landscape
•Advocating the value proposition of ThinkAgile Hyper-Converged Infrastructure
•Exploring use cases of ThinkAgile in AI environments
•Implementing ThinkAgile-based AI deployments

Tags: Artificial Intelligence (AI), ThinkAgile

Published: 2024-08-19
Length: 10 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DCLDAI200

21. **Partner Technical Webinar - Latest on Azure Stack HCI and ThinkAgile MX**
2024-07-01 | 60 minutes | Employees and Partners

In this 60-minute replay, Phil Searles discussed the Thinkagile MX455 and delivered a REPEAT to the very popular Azure Shack HCI. Phil and Amit also shared some announcements such as the ThinkAgile MX450/5, Premier, and OEM skus.

Tags: Advanced DataCenter, Cloud, Microsoft, Software Defined Infrastruture (SDI), ThinkAgile

Published: 2024-07-01
Length: 60 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: 06282024

22. **ThinkAgile Roadshow for Account Managers**
2024-06-21 | 60 minutes | Employees Only

As customers transition through technology refresh and modernize their IT, learn how to win and position ThinkAgile portfolio. Get an overview of current ThinkAgile momentum and strategy along with best practices in product positioning

Tags: Artificial Intelligence (AI), Cloud, Microsoft, Nutanix, ThinkAgile, VMware

Published: 2024-06-21
Length: 60 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DTAO101

23. **VTT Cloud Architecture: NVIDIA Using Cloud for GPUs and AI**
2024-05-22 | 60 minutes | Employees Only

Join JD Dupont, NVIDIA Head of Americas Sales, Lenovo partnership and Veer Mehta, NVIDIA Solution Architect on an interactive discussion about cloud to edge, designing cloud Solutions with NVIDIA GPUs and minimizing private\hybrid cloud OPEX with GPUs. Discover how you can use what is done at big public cloud providers for your customers. We will also walk through use cases and see a demo you can use to help your customers.

Tags: Artificial Intelligence (AI), Cloud, Nvidia, Software Defined Infrastruture (SDI), Technical Sales

Published: 2024-05-22
Length: 60 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DVCLD212

24. **Start the Conversation - Lenovo Cloud Strategy**
2024-05-20 | 25 minutes | Employees and Partners

The purpose of this course is to help sellers use the Lenovo cloud strategy as a foundation to start the customer cloud conversation.

Course Objectives:
•Understand why customers choose the cloud
•Describe the Lenovo Cloud Strategy
•Be able to start the customer cloud conversation

Tags: Cloud, Technology solutions

Published: 2024-05-20
Length: 25 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DCLDS103r3

25. **VTT Cloud and Edge Architecture: Principal Consultant Overview**
2024-04-10 | 50 minutes | Employees Only

Join Ruth Miller, Lenovo Principal Consultant, SSG Services for a data-led discussions to examine in detail customer IT environments, highlighting pain points, performance issues, edge and hybrid cloud strategy and carbon reduction capability.
Examples of workshop deliverables and outcomes will be discussed to illustrate the value of early engagement and discovery.

Tags: Cloud, Services, Sustainability, Technology solutions, TruScale Infrastructure as a Service

Published: 2024-04-10
Length: 50 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DVCLD211

26. **VTT Data Management How to sell storage - April 2024**
    2024-04-10 | 60 minutes | Employees and Partners

    In this course, you will know:

    - Why do we sell storage?
    - What are the basics you need to get an opportunity rolling?
    - Why Lenovo for Storage?
    - What is happening in the market today?
    - How to determine traction?

    Tags: Data Management, Storage

    Published: 2024-04-10
    Length: 60 minutes

    > **Start the training:**
    > Employee link: Grow@Lenovo
    > Partner link: Lenovo 360 Learning Center

    Course code: DVDAT209

27. **Technical Overview: ThinkAgile HCI and Cloud Platforms**
    2024-03-07 | 35 minutes | Employees and Partners

    This course is designed to give Lenovo sales and partner representatives a technical overview of Lenovo's ThinkAgile hyperconverged infrastructure and cloud platforms. Turnkey cloud platforms along with their architectural makeup, and container and data protection solutions are also covered.

    Learning Objectives:

    •Describe Lenovo's ThinkAgile hyperconverged infrastructure and cloud platforms
    •Explain do-it-yourself and turnkey cloud platforms along with their architectural makeup
    •Describe container and data protection solutions

    Tags: Architecture, Engineering & Construction, Cloud, Technical Sales, ThinkAgile

    Published: 2024-03-07
    Length: 35 minutes

    > **Start the training:**
    > Employee link: Grow@Lenovo
    > Partner link: Lenovo 360 Learning Center

    Course code: DCLDT2001r3

28. **Family Introduction: Converged and Hyperconverged**
2024-01-25 | 15 minutes | Employees and Partners

This course is designed to give Lenovo sales a foundation on the characteristics of the Converged and Hyperconverged family. As an introduction to each family, this course also includes positioning, when to use a family and product, and keywords a client may use when discussing a converged or hyperconverged product.
Objectives:
•Family characteristics
•Priority positioning
•Product usage
•Key words and phrases

Tags: Sales, Storage

Published: 2024-01-25
Length: 15 minutes

> **Start the training:**
> Employee link: Grow@Lenovo
> Partner link: Lenovo 360 Learning Center

Course code: SXSW1101r2

29. **Lenovo Azure Stack Solutions Overview**
2023-11-02 | 15 minutes | Employees and Partners

In this course, Eric Mills presents the new Microsoft Azure Stack family and Lenovo ThinkAgile MX server, offering detailed information on Hub and Edge.

Upon completion of this training, you will be able to:
• List the solutions of the Microsoft Azure Stack family
• Name the Lenovo hardware for Microsoft Azure Stack family

Tags: Cloud, Microsoft, ThinkAgile

Published: 2023-11-02
Length: 15 minutes

> **Start the training:**
> Employee link: Grow@Lenovo
> Partner link: Lenovo 360 Learning Center

Course code: DMXF100

30. **Lenovo Azure Stack HCI Solution Overview**
2023-11-02 | 27 minutes | Employees and Partners

In this course, watch Phillip Moss define the Microsoft Azure HCI solution. He walks your though the technologies the HCI solution is built on and the business value it can bring to your customers.

Upon completion of this training, you will be able to:
• Identify the core features of Azure Stack HCI
• Identify the key benefits of an Azure Stack HCI solution
• Describe Storage Spaces Direct and it's key features

Tags: Cloud, Microsoft, Server, ThinkAgile

Published: 2023-11-02
Length: 27 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DMXF101

31. **Azure Stack HCI Solution Selling Tips**
2023-11-01 | 8 minutes | Employees and Partners

In this course Eric Mills provides useful selling tips for the ThinkAgile MX solution with Azure Stack HCI.

Tags: Microsoft, ThinkAgile

Published: 2023-11-01
Length: 8 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DMXF107

32. **Azure Stack HCI Licensing**
2023-10-30 | 8 minutes | Employees and Partners

In this course, Phillip Moss and Eric Mills discuss the licensing for the Azure Stack HCI solution.

Tags: Microsoft, ThinkAgile

Published: 2023-10-30
Length: 8 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DMXF105

33. **Azure Stack HCI Core Components and Features**
2023-10-30 | 15 minutes | Employees and Partners

In this course, Phillip Moss, with an assist from Cosmos Darwin discuss the core components and features of the Azure Stack HCI solution. The course further details each of the components, features and the role it plays in the HCI.

Tags: Microsoft, ThinkAgile

Published: 2023-10-30
Length: 15 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DMXF103

34. **Azure Stack HCI Management**
2023-10-30 | 16 minutes | Employees and Partners

In this course, Phillip Moss, Eric Mills and Cosmo Darwin take turns discussing the number of available options to manage the Microsoft Azure HCI solution. The course briefly discusses each of the management platforms and how each is used to manage the HCI solution and its integration with Lenovo's XClarity hardware management.

Tags: Microsoft, ThinkAgile

Published: 2023-10-30
Length: 16 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DMXF102

35. **ThinkAgile Accelerating Cloud Agility: MX Series Technical Presentation**
2023-07-28 | 45 minutes | Employees and Partners

Amalu Santhosh, Lenovo Technical Product Manager, reviews the ThinkAgile MX product portfolio and SXM. She will walk you through a technical deep dive into MX and SXM workloads and discuss technical details and performance of the latest ThinkAgile MX and SXM solutions.

Tags: ThinkAgile

Published: 2023-07-28
Length: 45 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: DMXT201

36. **Cloud and HCI or Somewhere in Between**
    2023-07-11 | 40 minutes | Employees and Partners

    Provides a brief overview of Lenovo Portfolio for HCI and Cloud including ThinkAgile HX, VX, MX Certified Nodes and Appliances, Azure, and Engineered Cloud Solutions. Review Scenarios and complete questions "choose your own adventure" to identify and qualify an opportunity as HCI or Cloud and which portfolio solution would be the best option.

    Course objectives:
    •Where in the Sales Cycle we are
    •What is Cloud
    •What is Hyperconverged Infrastructure (HCI)
    •Review Lenovo Offerings in Cloud and HCI
    •Scenarios

    Tags: Cloud

    Published: 2023-07-11
    Length: 40 minutes

    > **Start the training:**
    > Employee link: Grow@Lenovo
    > Partner link: Lenovo 360 Learning Center

    Course code: DCLDS104r2

Related publications and links

For more information, see these resources:

- Lenovo ThinkAgile MX Series product page
  https://www.lenovo.com/us/en/data-center/software-defined-infrastructure/ThinkAgile-MX-Certified-Node/p/WMD00000377
- Microsoft Azure Local documentation
  https://docs.microsoft.com/en-us/azure-stack/hci/overview
- Lenovo Data Center Solution Configurator (DCSC):
  https://dcsc.lenovo.com
- Lenovo ThinkAgile MX for Microsoft Azure Stack HCI Best Recipes
  https://datacentersupport.lenovo.com/us/en/solutions/ht507406

Related product families

Product families related to this document are the following:

- 2-Socket Rack Servers
- Hyperconverged Infrastructure
- ThinkAgile MX Series for Microsoft Azure Local

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