ThinkAgile MX Series for Edge

Ground-Breaking New Class of Edge Servers for Easy Azure Local Edge Solutions

New Class of Edge servers

Computing resources are needed not just in the data center, but remotely as well. However, for performance reasons, remote data-generating devices must be close to computing and storage resources. Hence the Lenovo ThinkAgile MX Series Edge servers (Appliance/Integrated System and Certified Node). Lenovo ThinkAgile MX appliances map to Microsoft Azure Local Integrated Systems and ThinkAgile MX Certified Nodes map to Microsoft Azure Local Validated Nodes. Its small footprint and power efficiency allow for reliable server-class performance at many Edge locations.

With additional benefits of ruggedness and variety of mounting options, these servers are ideal for small locations. Azure Local brings reliability, high availability and security to these versatile Edge servers.

The ThinkAgile MX455 V3 Edge Premier Solution is a versatile edge solution belonging to the top tier of Azure Local solution categories delivering new levels of AI, compute, and storage performance at the edge, built through close engineering collaboration between Lenovo and Microsoft. This single-socket server with a 2U height and short depth case is suitable for deployment in shallow cabinets. It can be mounted in a 2-post or 4-post rack and uses the AMD EPYC 8004 Series processors for an ideal mix of performance and power efficiency. Premier Solution offers customers the utmost in capability and reliability, providing enhanced integration and continuous ongoing validation along with advanced professional services and adaptable purchasing options.

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Accelerate your Business

Deploying hyperconverged infrastructure is a widely accepted method for modernizing legacy infrastructure. Taking it to the next level, a hybrid cloud approach enables placing each workload in the right place: public cloud for some, on-premises for others. Azure Local is Microsoft's HCI solution for customers that wish to run workloads on-premises and extend easily to Azure for hybrid capabilities such as back-up, site recovery, storage, cloud-based monitoring and more.

Azure Local is a HCI host operating system from Microsoft, delivered as an Azure service, providing the latest and up-to-date security, performance and feature updates. Azure Local builds on the foundation of the Microsoft Windows Server Software Defined (WSSD) program and provides a certification path for Storage Spaces Direct solutions.

Lenovo's ThinkAgile MX Series for Edge combines Azure Local with industry leading Lenovo edge servers to deliver a unique, rugged edge solution that is easy to deploy and easy to sustain. As you would expect, Lenovo makes lifecycle management easy and complete system support is covered by a single phone call.

Simplicity and Flexibility

To enhance the support experience, XClarity, Lenovo's suite of systems management tools, integrates directly with Windows Admin Center, providing a unified single-pane-of-glass simple experience across infrastructure, virtual machines, software, and hardware. ThinkAgile MX Nodes offer a wide range of processor, memory, and storage options to provide the maximum flexibility for customizing your infrastructure. Continuous validation, best recipe (firmware and driver) updates and automated, non-disruptive software and hardware updates via Lenovo XClarity Integrator are provided to ensure that the systems are performing optimally without any risk.

A Price Performer

ThinkAgile MX Integrated Systems/Appliances for Edge include the new Azure Local software, and optionally include Windows Server 2022 Datacenter edition in case the customers require unlimited guest OS virtual machine licenses.

Azure Local OS license provides a huge value to customers and includes:

- Storage Spaces Direct (S2D): State of the art Software defined storage from Microsoft with multiple high-performance resiliency options, deduplication, compression and more.
- Windows Admin Center (WAC): A web-based management portal is included with the software at no extra cost. WAC can be used to deploy S2D clusters. Additionally, Lenovo's XClarity plugin allows customers to deploy their hardware as well as software from that single interface, enabling single pane of management.
- Hyper-V: Hypervisor is included in the license
- Software-Defined Networking: Features such as virtual network encryption, firewall auditing, virtual network peering enable customers to get the benefits of a more secure software defined network with Azure Local.

Azure Local is hybrid by design, and customers can benefit from native integration with Azure ARC and Azure Monitor and connect to Azure for a variety of Azure hybrid services seamlessly. Fleet management for hosts and VMs allows customers to monitor and manage clusters at scale.

As Much Help As You Need

Lenovo and Lenovo partners have a comprehensive portfolio of professional services that supports the full life cycle of your infrastructure. At every stage — from planning to deploying, supporting, optimizing, and end of life — extra help is available to accelerate meeting your business objectives.

Microsoft

ThinkAgile MX Edge – AMD

The ThinkAgile MX455 V3 Edge Premier Solution is based on the ThinkEdge SE455 V3 server.

Specifications

Product Name	ThinkAgile MX455 V3 Edge Premier Solution
Form Factor	2U rack server, short depth (438mm depth, from EIA front rack flange)
Processors	1x 4th Generation AMD EPYC™ Processor, up to 64 cores, up to 200W TDP
Memory	Maximum 576GB using 6x 96GB RDIMMs
Expansion	Up to 6x PCIe 5.0 slots, 1x OCP 3.0 slot
Drive Bays	• Up to 8x 2.5-inch 15mm internal drives (using hot-swap trays) • 4x 2.5-inch hot-swap drive bays (front accessible), supporting NVMe SSD drives with hot-swap trays • Optional 4x 2.5-inch non-hot-swap drive bays internal to the server, supporting NVMe SSD drives. Drives are mounted in a cage that rotates up for easy access. • Up to 2x M.2 boot drives (RAID 1)
Network Interface	LOM adapter installed in the OCP 3.0 slot Up to 6x PCIe adapters
Boot Drive	480GB or 960GB M.2 non-hot-swap NVMe SSDs (RAID 1)
GPU Support	Supports up to 6x single-wide GPUs
Power	• Dual redundant power supplies AC (up to 1800W Platinum, 1100W Titanium) • Dual redundant power supplies -48V DC up to 1100W
RAID Support	Optional HW RAID
Management	Hardware management via Lenovo XClarity and resource management through Microsoft Windows Admin Center, with mobile option
License Options	Azure Local 23H2 OS, Windows Server 2022 Standard or Datacenter (optional)
Warranty and Support	Lenovo Premier Support - Dependent on the customer's needs, support is available for 3 to 5 years. Premier solution includes the following additional features: • L1/L2 software support • Full stack cluster aware update • Health pre-check • Lenovo Open Cloud Automation integration • White glove deployment services • Cloud deployment with Azure Local 23H2 and above

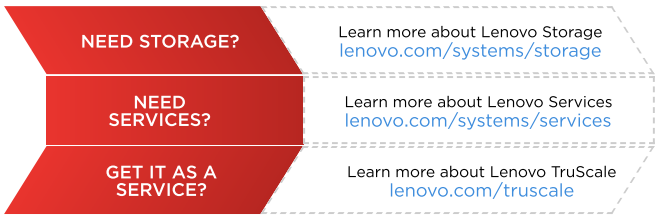
Microsoft

About Lenovo

Lenovo is a US$83 billion revenue global technology powerhouse, ranked #153 in the Fortune Global 500, and serving millions of customers every day in 180 markets. Guided by its **vision** of "Smarter Technology for All", Lenovo is executing a **Hybrid AI strategy** that spans Personal AI – one personal AI, multiple devices; and Enterprise AI – helping customers turn data into insights and value. This strategy is delivered through the Group's commitment to **world-class innovation** and a full-stack AI portfolio, including devices, infrastructure solutions, software, and services. Lenovo is widely recognized for its **operational excellence**, with a global footprint spanning more than 20 R&D locations and a supply chain that includes more than 30 manufacturing sites across 10 markets.

For More Information

To learn more about ThinkAgile MX Certified Nodes, contact your Lenovo representative or Business Partner, or visit lenovo.com/thinkagile. For detailed specifications, consult the ThinkAgile MX455 V3 Edge Premier Solution product guide.



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