ThinkAgile HX Series for Edge

Cloud Capabilities at Edge with ThinkAgile HX

Cloud Capabilities with Reliable & Low Latency Hyperconverged Edge Solution

The Lenovo ThinkAgile HX1021 Certified Node is a Hyperconverged solution based on the Intel® Xeon® processor D-2100 that consolidates compute, storage, and virtualization software into simple building blocks, easily managed in scale-out clusters through a single interface for meeting edge computing requirements

The condensed design of the solution allows new compute possibilities directly where data is being generated such as a retail, manufacturing units, gas stations, restaurants and beyond.

Secure, Compact Size and Rugged HCI Systems for Remote Locations

ThinkAgile HX1021 is a purpose-built edge server for compute and storage optimized on Lenovo's highly reliable server, preloaded and validated with Nutanix Cloud OS Hyperconverged software.

Today, remote locations are forced to make a choice between underpowered IOT gateways and PCs, or overpowered and non-rugged data center-centric servers. Now they have an option—a right-sized compact compute and storage server designed specifically to meet the needs of remote locations. This lets you shrink your server footprint, maximize resources, and scale easily by adding more HX nodes as your business grows.

The Lenovo ThinkAgile HX Edge Solutions is based on a 1U height, half-width, and short-depth Edge server that can go anywhere. It can be hung on a wall, stacked on a shelf, or mounted in a rack. This rugged Edge server can handle temperatures from 0-55°C as well as tolerance to locations with high-dust and vibration.

Centralized IT Management and Operations of Remote Systems

Use Nutanix Prism for one-click planning, provisioning, insights, ongoing system health monitoring and firmware updates across thousands of locations to reduce the complexity and hassle of your IT operations. Lenovo XClarity can be used in concert with Prism for comprehensive management.
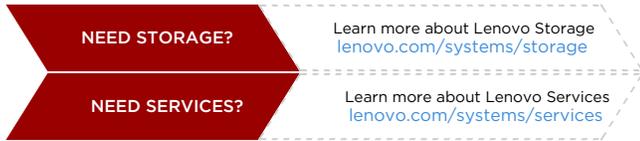
Specifications

Form Factor	1U height, half width edge server; Height: 40mm, Width: 215mm, Depth: 376mm
Processor	1-socket Intel® Xeon® processor D-2100, up to 16 cores
Memory	Up to 256GB in 4x slots, using 16GB, 32GB or 64GB DIMMs; up to 2666MHz TruDDR4.
Internal Storage Options	• 2x M.2 2280 SATA boot drives + 8x M.2 P4511 650GB NVMe data storage drives • 2x M.2 2280 SATA boot drives + 4x M.2 P4511 NVMe data storage drives • SED, high temperature, high capacity, and high endurance drive options • Optional encryption key deletion on tamper or theft detection
RAID Support	• Hardware RAID 1 for M.2 SATA Boot SSDs • Hardware RAID 1 for M.2 SATA Storage SSDs
Mounting Options	Single node mounting options for desktop, VESA, DIN, wall, or ceiling • Multi-node stackable bookend options • E1 Enclosure • E2 Enclosure • Locking bezels and dust filter options
Power	Dual-redundant external power supplies 100-240V AC
Network Interfaces (Wired)	• 10GbE SFP+ 2-Port, 10/100/1GbE RJ45 2-Port Intel i350 (Extreme Shock & Vibe) • 4xRJ45 10GBASE-T LOM Package • 1GbE management

Accelerators and PCIe Expansion	• 1x PCIe 3.0 x16 75W or 4x M.2 22110
	• Support for 1x NVIDIA® T4 GPU for AI inference
	• 1x PCIe network card expansion
	  ○ 2x 10GBASE-T PCIe
	  ○ 2x 10/25GbE SFP28 PCIe

Systems Management	Hardware management via Lenovo XClarity and software management via Nutanix Prism
Environmental	Extended operating temperature of 0-55°C, up to 40G shock & 3Grms vibration, IEC 60068, NEBS 3, optional dust filter
Security	• ThinkShield Key Vault secure management with motion and intrusion tamper protection • Optional Key Vault SED encrypted storage for boot and data drives • Lenovo Trusted Supplier Program • Optional Kensington keyed lock compatible chassis • Cable locking bezel
Operating Systems	Nutanix Acropolis Hypervisor, VMware ESXi (ESXi support is planned)
Limited Warranty	3-year warranty extendable to 5-year, next business day 9x5; optional service upgrades

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US$45 billion Fortune 500 company and a global technology leader in driving Intelligent Transformation. Lenovo's data center solutions (ThinkSystem, ThinkAgile) are creating the capacity and computing power that are changing business and society.

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To learn more about ThinkAgile HX contact your Lenovo representative or Business Partner, or visit our ThinkAgile HX website.

For detailed specifications, consult the HX1021 product guide.