

# ThinkSystem SE350

## Purpose-built IoT, Edge server



### **Purpose Built Edge Server for Compute & Storage**

Today, remote locations are forced to make a choice between underpowered IOT gateways and PCs, or overpowered and non-rugged datacenter centric servers. Now they have an option—a right-sized compact compute and storage server designed specifically to meet the needs of remote locations.

The Lenovo ThinkSystem SE350 is an Intel® Xeon® D-2100-based 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.

The SE350 is designed to virtualize traditional IT and OT applications as well as new transformative IOT and AI systems, providing the processing power, storage, accelerator, and networking techniques required for today's Edge workloads.

### **Secure, Connected and Reliable**

At Lenovo, security begins with design and continues through supply chain, delivery, and the full lifecycle of the system.

The SE350 equips ThinkShield security with cybersecurity capabilities with key encrypted storage and secured bios, and physical security capabilities such as a locking bezel, intrusion and tamper protection mechanisms.

The SE350 provides numerous connectivity options with wired and secure wireless Wi-Fi and LTE connection abilities. Reliability features such as wireless failover, redundant boot and data drives, high temperature components and support for hyperconverged clustering keep critical Edge workloads running.

### **Agility and Remote Manageability**

It is costly and time consuming to send IT staff to remote sites. The SE350 features XClarity Controller, an enterprise-grade embedded management engine. It also supports XClarity Administrator, which enables IT managers to efficiently maintain server, storage, and networking infrastructure and accelerate services provisioning.

In addition to a dedicated wired networking management port, the SE350 can deliver management over a secure wireless connection so IT managers can perform updates, management tasks, and access sites even when the primary site internet connection is down.

Lenovo™

## Specifications

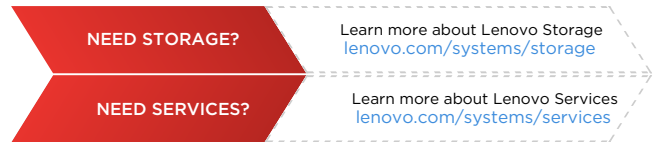
Form Factor	1U height, half width edge server; Height: 40mm, Width: 215mm, Depth: 376mm
Processor	1-socket Intel® Xeon® D-2100, up to 16 cores
Memory	Up to 256GB in 4x slots, using 64GB DIMMs; 2133/2400/2666MHz TruDDR4
Internal Storage Options	<ul style="list-style-type: none"> <li>• 2x M.2 2280 SATA boot drives + 8x M.2 22110 NVMe data storage drives</li> <li>• 2x M.2 2280 SATA boot drives + 4x M.2 22110 NVMe/SATA data storage drives</li> <li>• SED, high temperature, high capacity, and high endurance drive options</li> <li>• Optional encryption key deletion on tamper or theft detection</li> </ul>
RAID Support	<ul style="list-style-type: none"> <li>• Software RAID available</li> <li>• Hardware RAID 0/1 for M.2 SATA Boot SSDs</li> <li>• Hardware RAID 0/1 for M.2 SATA Storage SSDs</li> </ul>
Mounting Options	<ul style="list-style-type: none"> <li>• Single node mounting options for desktop, VESA, DIN, wall, or ceiling</li> <li>• Multi-node stackable bookend options</li> <li>• E1 Enclosure for two nodes side-by-side and 4x power supplies. Depth: 735mm, Height: 1U</li> <li>• E2 Short Depth Enclosure for two nodes sides by side + 4x power supplies: Depth: 440mm, Height: 2U</li> <li>• Locking bezels and dust filter options</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Dual-redundant external power supplies 100-240V AC</li> <li>• Single DC supply: -48VDC (-40VDC to -72VDC) @8.4A</li> </ul>
Network Interfaces (Wired)	<ul style="list-style-type: none"> <li>• 2x10GbE (SFP+), 2x 10/100MB/1GbE, 2x 1GbE management</li> <li>• 2x10GbE (SFP+), 4x switch 10/100MB/1GbE, 1GbE management</li> <li>• 2x10GbE, 2x 10/100MB/1GbE, 2x 1GbE management</li> </ul>
Network Interfaces (Wireless)	<ul style="list-style-type: none"> <li>• Four wireless SMA connectors for LTE &amp; Wi-Fi</li> <li>• Wi-Fi 64/128-bits encrypted WEP, WPA, WPA2, 802.11 a/b/g/n/ac</li> <li>• 3G/4G Cellular LTE 3GPP Release 12 450Mbps DL/50Mbps UL</li> <li>• 5G ready</li> </ul>
Accelerators and PCIe Expansion	<ul style="list-style-type: none"> <li>• 1x PCIe 3.0 x16 75W or 4x M.2 22110</li> <li>• Support for 1x NVIDIA® T4 GPU for AI inference</li> <li>• Support for GPU, FGPA, ASIC accelerators</li> <li>• Support for operational technology networks</li> <li>• 1x PCIe network card expansion <ul style="list-style-type: none"> <li>◦ 4x 1GbE RJ45 PCIe</li> <li>◦ 2x 10GBASE-T PCIe</li> </ul> </li> <li>• 2x 10/25GbE SFP28 PCIe</li> </ul>
I/O	<ul style="list-style-type: none"> <li>• Front: 1x VGA, 2x USB 3.0, 1x XClarity Controller management mini-USB</li> <li>• Rear: 1x RJ45 Console Serial, 2x USB 2.0</li> <li>• USB and Console ports can be disabled</li> </ul>
Systems Management	Lenovo XClarity Administrator with mobile option
Environmental	Extended operating temperature of 0-55°C, up to 40G shock & 3Grms vibration, IEC 60068, NEBS 3, optional dust filter
Security	<ul style="list-style-type: none"> <li>• ThinkShield Key Vault secure management with motion and intrusion tamper protection</li> <li>• Optional Key Vault SED encrypted storage for boot and data drives</li> <li>• Lenovo Trusted Supplier Program, Secure boot, and Smart USB Protections, Lenovo Wi-Fi Security, Lenovo LTE Security</li> <li>• Optional Kensington keyed lock compatible chassis</li> <li>• Nationz TPM 2.0 for customers in China</li> <li>• Cable locking bezel</li> </ul>
Operating Systems	Microsoft Windows Server, SLES, Ubuntu, RHEL, VMware ESXi, vSAN, Scale Computing HC3. Visit <a href="http://lenovopress.com/osig">lenovopress.com/osig</a> for details.
Limited Warranty	1-year, 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.

## For More Information

To learn more about the ThinkSystem SE350, contact your Lenovo representative or Business Partner, or visit [lenovo.com/systems/servers](http://lenovo.com/systems/servers). For more details consult the SE350 Product Guide, [lenovopress.com/lp1168](http://lenovopress.com/lp1168).



© 2020 Lenovo. All rights reserved.

**Availability:** Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors. **Warranty:** For a copy of applicable warranties, write to: Lenovo Warranty Information, 1009 Think Place, Morrisville, NC, 27560. Lenovo makes no representation or warranty regarding third-party products or services. **Trademarks:** Lenovo, the Lenovo logo, ThinkAgile, ThinkSystem, TruDDR4, and XClarity® are trademarks or registered trademarks of Lenovo. Intel® and Xeon® are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Microsoft®, Windows Server®, and Windows® are trademarks of Microsoft Corporation in the United States, other countries, or both. Other company, product, or service names may be trademarks or service marks of others. Document number DS0088, published December 3, 2019. For the latest version, go to [lenovopress.com/ds0088](http://lenovopress.com/ds0088).