

**Lenovo**

**HS350X V3  
Think System  
Ready Node**



# Lenovo HS350X V3 Think System Ready Node User Guide

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**Lenovo**

**Lenovo HS350X V3 Think System Ready Node**



## Specifications

- Model: ThinkSystem Ready Node HS350X V3
- Management Tool: Platform Management Utility (PMU)
- Supports: Redfish v13.5
- Documentation Links:
  - [Product Guide](#)
  - [User Guide](#)
  - [Messages and Codes Reference](#)
  - [UEFI User Guide](#)
  - [BMC User Guide](#)

## Product Usage Instructions

### Product Guide

The Product Guide provides essential pre-sales information about the HS350X V3 server, including key features, specifications, components, options, and configuration guidelines. Refer to this guide for a comprehensive understanding of the product.

### User Guide

The User Guide contains hardware component references and detailed technical specifications. It assists in maintaining or replacing hardware components within the server and provides guidance for daily operations.

### Messages and Codes Reference

This document specifies information, warning, and error messages output by the BMC. Use this reference to interpret messages from the event log and take appropriate actions based on the message received.

### UEFI User Guide

The UEFI User Guide explains how to configure UEFI functions of the server, including server management, socket configuration, platform configuration, security settings, and advanced configurations. It helps in managing server parameters effectively.

## BMC User Guide

The BMC User Guide details the operation of functions within the BMC web UI, such as sensors, FRU information, settings, and maintenance procedures. It includes guidance on firmware upgrades and other maintenance tasks.

## Management

For management tasks, customers can utilize the Platform Management Utility (PMU) tool. Additionally, the HS350X V3 supports Redfish v13.5 for those who prefer it. Detailed information on Redfish can be found at the provided URL.

## FAQ

- **Q: Where can I download the Platform Management Utility (PMU) tool?**
  - A: The PMU tool can be downloaded from the following web page: [PMU Download Page](#)
- **Q: What version of Redfish does HS350X V3 support?**
  - A: HS350X V3 supports Redfish v13.5. More information on Redfish can be found at: [Redfish Information Page](#)

## ThinkSystem Ready Node HS350X V3 Quick Start Guide

### Planning / Implementation

This document is a quick reference for how to support and manage the ThinkSystem Ready Node HS350X V3 platform. We provide references to the documentation as well as a brief summary of how to leverage it, all in one location, so that customers, partners and field technicians can educate themselves and better support the product.



Figure 1. Lenovo ThinkSystem Ready Node HS350X V3

## Reference documentation

The reference documentation for the HS350X V3 is contained within the following links. Below, we have also

provided a summary of the contents and usage of each document. These documents are all housed at the main documentation pages for the HS350X V3:

- <https://pubs.labs.lenovo.com/hs350x-v3>
- <https://lenovopress.lenovo.com/storage/thinksystem/hs350x-v3>

## Product Guide

This guide provides essential pre-sales information to understand the HS350X V3 server, its key features and specifications, components and options, and configuration guidelines. <https://lenovopress.lenovo.com/lp1827-thinksystem-ready-node-hs350x-v3>

- [Click here to check for updates](#)

## ThinkSystem Ready Node HS350X V3 Quick Start Guide

- **User Guide**

This guide contains the hardware component reference and detailed technical specifications. It can be leveraged to better understand how to maintain and/or replace hardware components within the server, as well as assist in daily operations.

[https://pubs.labs.lenovo.com/hs350x-v3/hs350x\\_v3\\_user\\_guide.pdf](https://pubs.labs.lenovo.com/hs350x-v3/hs350x_v3_user_guide.pdf)

- **Messages and Codes Reference**

This document contains the specification and detail for the information, warning, and error messages output by the BMC. These are typically viewed via the event log of the application on the server and can be cross-referenced in this document so that appropriate actions can be taken.

[https://pubs.labs.lenovo.com/hs350x-v3/hs350x\\_v3\\_messages\\_reference.pdf](https://pubs.labs.lenovo.com/hs350x-v3/hs350x_v3_messages_reference.pdf)

- **UEFI User Guide**

This guide contains information on how to configure the UEFI functions of the server. It provides a method by which to configure server management, socket configuration, platform configuration, security and advanced settings. For example, the server management screen allows the administrator to view and configure parameters for managing the server, i.e. IP network configuration for the BMC interface.

[https://pubs.labs.lenovo.com/hs350x-v3/thinksystem\\_hs350xv3\\_uefi\\_user\\_guide.pdf](https://pubs.labs.lenovo.com/hs350x-v3/thinksystem_hs350xv3_uefi_user_guide.pdf)

- **BMC User Guide**

This guide contains information on how to operate the various functions within the BMC web UI. It has a reference for the sensors, FRU information, settings and maintenance. For example, there is a section on firmware upgrades and how to perform them in the maintenance section.

[https://pubs.labs.lenovo.com/hs350x-v3/thinksystem\\_hs350xv3\\_bmc\\_user\\_guide.pdf](https://pubs.labs.lenovo.com/hs350x-v3/thinksystem_hs350xv3_bmc_user_guide.pdf)

## Management

For management, customers can leverage the Platform Management Utility (PMU) tool. We have included a comparison of PMU vs OneCLI as well as a spec below.

**PMU can be downloaded at the following web page:**

<https://datacentersupport.lenovo.com/us/en/products/servers/thinksystem/hs350xv3/7de3/downloads/driver>

[list/component?name=Software](#) and Utilities HS350X V3 will also support the use of Redfish v13.5 if desired. Exhaustive information regarding

- Redfish can be obtained at the following URL: <https://www.dmtf.org/standards/redfish>

Note: HS350X V3 is not compatible with XClarity management solutions.

## Firmware updates

When updating drive and adapter firmware, the method varies depending on the type of hardware requiring updates. This section summarizes how to update the generic IO parts.

## Network adapters

Firmware updates vary depending on the adapter vendor:

- Broadcom adapters  
The tool/utility is contained in the FW package for the HS350X V3; readme file details the update method.
- Mellanox adapters Mellanox/NVIDIA adapter updates are located on the vendor web site. See the Mellanox/NVIDIA web site for both tool and FW package.
- Intel adapters: The tool/utility is contained in the FW package for the HS350X V3; readme file details the update method.

## HBA/RAID adapters

The “storcli2” tool is used when updating HBA and RAID firmware. The tool/utility is contained in the FW package for the HS350X V3. The readme file explains the update method.

## SSDs

No extra tool/utility is needed for the FW update; the update command explained in the readme file instructs users how to perform the update. See update example below:

### Steps to update SSD firmware:

1. Run `./nvme list` (check the node number of the SSD that requires a firmware update; for example, `nvme1`.)
2. Run `./nvme fw-download -f xxxxx.bin /dev/nvme1` (xxxxxx is the firmware file name)
3. Run `./nvme fw-commit /dev/nvme1 -a 1 -s 0`
4. Run `./nvme reset /dev/nvme1` (check if the firmware version has been successfully updated)
5. Wait 10 seconds
6. Power cycle the system.

## HDDs

Tool/utility download link are provided; the update method is explained in the readme file. See update example below:

## Steps to update HDD firmware:

1. Based on the HDD model, open the corresponding FW folder which you downloaded & extracted from the Lenovo Webpost website.
2. Download the FW upgrade utility to the folder from link:  
<https://www.seagate.com/content/dam/seagate/migrated-assets/old-supportfiles/seachest/SeaChestLite.zip>
3. Unzip the utility zip file and launch corresponding tools based on your system configuration (see below).
4. Follow the instructions included with the tools. See update example below: Usage (run with sudo)

```
SeaChest_Lite [-d ] {arguments} {options}
```

## Examples:

```
sudo SeaChest_Lite --scan  
sudo SeaChest_Lite -d /dev/sgl -i  
sudo SeaChest_Lite -d /dev/sgl --downloadFW FWfile.bin
```

## More information

For more information not covered in this Quick Start Guide, please see links to the User Guide, Messages and Codes Reference, UEFI User Guide, and BMC User Guide. Links are listed in the Reference documentation section.

## Related product families

### Product families related to this document are the following:

- [ThinkSystem HS350X V3 Storage Server](#)

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## **Documents / Resources**

	<p><a href="#">Lenovo HS350X V3 Think System Ready Node</a> [pdf] User Guide HS350X V3 Think System Ready Node, HS350X V3, Think System Ready Node, System Ready Node, Ready Node, Node</p>
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References

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- [User Manual](#)

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