What's New - August 2024
Article

ThinkSystem SR780a V3

The Lenovo ThinkSystem SR780a V3 is a powerful water-cooled 5U server that features two 5th Gen Intel Xeon Scalable processors and eight high-performance GPUs. This server is the ultimate Generative AI server, with advanced GPU-to-GPU communications and high-speed PCIe 5.0 connectivity between the GPUs, CPUs, and networking. It was designed fully in-house by Lenovo from ground up to provide best-in-class modularity, thermal performance and reliability.

The SR780a V3 is now configurable and orderable in the DCSC configurator.

Figure 1. Lenovo ThinkSystem SR780a V3

For more information see the following Lenovo Press resources:

- Datasheet, ThinkSystem SR780a V3
- Product Guide, ThinkSystem SR780a V3
- Article, New 8-GPU AI Servers from Lenovo

ONTAP 9.15

Our ThinkSystem DM Series and DG Series storage systems now support ONTAP 9.15. Here's what's new with ONTAP 9.15:

- SnapMirror Active Sync – GA release
- Encrypted NVLOG mirroring on DM7100F
    - All MCC data is now encrypted
- Autonomous Ransomware Protection – Increased accuracy.
- Expansion of Multi Admin Verify commands
- NFS v3 over RDMA Support
- FlexCache Writeback – GA
- Reduced the number of reboots during ONTAP upgrades
- TLS 1.3 support for Cluster Peering Encryption
    - Completes TLS journey
- FlexClone volumes will have unique encryption key (different from host FlexVol)

For information about the storage systems, see the following links:

- DM Series: https://lenovopress.lenovo.com/storage/thinksystem/dm-series#sort=relevance
- DG Series: https://lenovopress.lenovo.com/storage/thinksystem/dg-series#sort=relevance

New transceiver for DM and DG storage

We've announced a new 25Gb transceiver for DM and DG storage systems:

- Lenovo 25G SR SFP28 Amphenol Ethernet Transceiver, 4TC7A94751

The transceiver is supported on these systems:

- ThinkSystem DG5000
- ThinkSystem DG7000
- ThinkSystem DM3010H
- ThinkSystem DM5100F
- ThinkSystem DM7100F
- ThinkSystem DM7100H

See the DG Series or DM Series product guides for details.

New drive options for servers

The following new SSDs and HDDs have been announced:

- ThinkSystem PM7 Mixed Use SAS drive family, available in the 2.5" form factor in 1.6TB and 3.2TB capacities. For details, including server support, see the PM7 product guide.
- ThinkSystem PM9D3a Read Intensive NVMe drive family, available in E3.S and 2.5" form factors up to 15.26TB. For details, including server support, see the PM9D3a product guide.
- New v2 versions of the ThinkSystem 12TB, 16TB, and 20TB SAS and SATA HDDs in a 3.5" form factor. See the ThinkSystem HDD Reference for server support.
- We've also expanded the support of existing drive families to additional servers. See these product guides for server support:
  - ThinkSystem PM1653 Read Intensive SAS
  - ThinkSystem PM1655 Mixed Use SAS
  - ThinkSystem P5336 Read Intensive NVMe
  - ThinkSystem PM9A3 Read Intensive NVMe
  - ThinkSystem 7500 MAX Mixed Use NVMe
  - ThinkSystem 7500 PRO Read Intensive NVMe

All server product guides have also been updated with the new drive support.

Figure 1. ThinkSystem PM7 Mixed Use SAS 24Gb SSDs

Other server options

This month we announced the following server options for ThinkSystem and ThinkEdge servers:

- Support for Intel Xeon Platinum 8593Q 64C 385W 2.2GHz processor for these servers:
  - ThinkSystem SR650 V3
  - ThinkSystem SR630 V3
- New 128GB RDIMM for these servers:
  - ThinkSystem SR635 V3
  - ThinkSystem SR655 V3
  - ThinkSystem SR645 V3
  - ThinkSystem SR665 V3
- Support for the 3.84TB 7450 PRO Read Intensive NVMe M.2 drive for this server:
  - ThinkSystem SD550 V3
- Support for Broadcom 57504 25GbE 4-port OCP and PCIe adapters for these servers:
  - ThinkSystem SR635
  - ThinkSystem SR655
  - ThinkSystem SR645
  - ThinkSystem SR665

- Support for the ThinkSystem M.2 RAID B540i-2i SATA/NVMe Adapter in this server:
  - ThinkSystem ST650 V3

- New Security bezel for the following server:
  - ThinkSystem SR250 V3

- New option part number for Security and Standard front bezels for the following server:
  - ThinkEdge SE450

- New option part number for field replacements (customer spare parts) of the CR2032 coin battery for the ThinkEdge servers
  - ThinkSystem SE350
  - ThinkEdge SE350 V2
  - ThinkEdge SE360 V2
  - ThinkEdge SE450
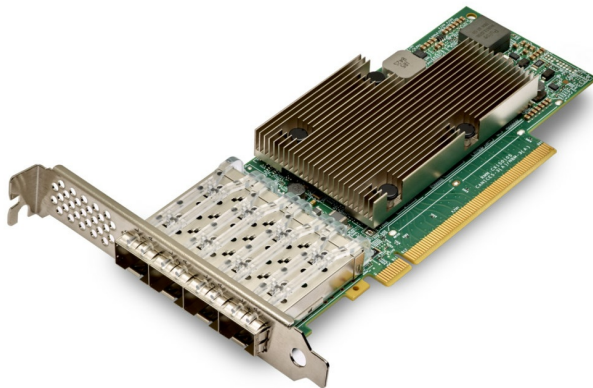 - ThinkEdge SE455 V3

Figure 2. ThinkSystem Broadcom 57504 10/25GbE SFP28 4-Port PCIe Ethernet Adapter

GPUs in July

In case you missed it, at the end of July we announced the following GPU support:

- New NVIDIA RTX 4500 Ada 24GB PCIe Active GPU, supported on these servers:
  - SR655 V3
  - SR665 V3

- Added server support for the Intel Flex 140 12GB Gen4 Passive GPU, supported on this server:
  - SE360 V2

- Added server support for the NVIDIA L4 24GB PCIe Gen4 Passive GPU, supported on this server:
  - SR675 V3

- Added server support for the NVIDIA H100 NVL 94GB PCIe Gen5 Passive GPU, supported on these servers:
  - SR650 V3
  - SR655 V3
  - SR665 V3

- Added server support for the NVIDIA RTX 6000 Ada 48GB PCIe Active GPU, supported on these servers:
  - SR655 V3
  - SR665 V3

Figure 3. ThinkSystem NVIDIA RTX 4500 Ada 24GB PCIe Active GPU

NVIDIA Omniverse

Subscription licenses of 5 years are now available for NVIDIA Omniverse Enterprise:

- NVIDIA Omniverse Enterprise Subscription per GPU, 5 Year, 7S020044WW
- NVIDIA Omniverse Enterprise Subscription per GPU EDU, 5 Year, 7S020045WW

See the ThinkSystem and ThinkAgile GPU Summary for details.

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