Lenovo ThinkSystem Memory Summary
Reference Information

ThinkSystem TruDDR5 and TruDDR4 memory delivers trusted, tested, quality, performance, and reliability throughout the ThinkSystem portfolio. We use the highest quality industry-standard memory components sourced from Tier 1 DRAM suppliers. Only memory that meets these strict requirements are selected for memory in Lenovo servers. It is then compatibility tested and tuned on every ThinkSystem server to maximize reliability.

In addition, Lenovo memory DIMMs for servers have a unique signature programmed into them so your system can verify that TruDDR5 and TruDDR4 memory is installed in your system. Since the memory will be authenticated, memory stretch goals are enabled only when TruDDR4 memory DIMMs are detected. Together with lower power consumption, these new DIMMs can provide the lowest TCO for data centers.



Figure 1. Lenovo TruDDR4 memory DIMM

Memory Technology

Lenovo offers high-performance and high-capacity memory options in ThinkSystem servers.

MRDIMM Memory

Multiplexed Rank DIMM (MRDIMM) memory technology allows two ranks of data to be feed simultaneously, allowing 128 bytes of memory data to be fed to the CPU, twice as much as with regular DDR5 DIMMs. This increases DRAM speed from the 4,800 MT/s of common current DDR5 implementations to up to 8,800 MT/s. For more information, see the Lenovo Press article, Introduction to MRDIMM Memory Technology.

CXL Memory

CXL Memory connects to the processor via PCIe lanes rather than traditional memory connections. CXL Memory DIMMs are in a different memory form factor to regular DIMMs, instead installing in E3.S 2T drive bays. CXL Memory has increased memory bandwidth compared to RDIMMs which can be a performance benefit to applications. For more information, see the Lenovo Press article, Introduction To CXL 2.0 Memory.

Performance+ Memory

Memory intensive workloads needing a competitive advantage will benefit from Lenovo's Performance+ memory. Lenovo engineers worked in partnership with leading memory suppliers to develop and tune ThinkSystem servers enabling them to exceed the latest industry standard for memory performance.

In ThinkSystem servers with the latest Intel Xeon processors, Lenovo's Performance+ memory delivers increased memory speed with two memory channels populated.

3DS RDIMMs

To meet the ever increasing demand for higher density server memory modules, Lenovo offers 3DS (3 Dimensional Stacked) DDR4 RDIMMs which apply TSV (Through Silicon Via) technology from our partnership with a leading Tier 1 DRAM supplier. The new TSV 3DS stack technology enables higher density DRAM stack packages with higher operational frequency and reduced power consumption. The RDIMM configuration along with 3DS TSV DRAM packages exhibits performance benefits and lower power consumption over alternative high density solutions to ultimately provide the lowest TCO for data centers.



Figure 2. Intel Optane Persistent Memory

Part Number Information

The following tables list the ordering information:

- CXL memory for Intel servers
- 8800 MHz MRDIMM memory for Intel servers
- 6400 MHz DDR5 memory for Intel servers
- 6400 MHz DDR5 memory for AMD servers
- 5600MHz SODIMMs and 6400MHz CSODIMMs
- 5600 MHz DDR5 memory for AMD servers
- 5600 MHz DDR5 memory for Intel servers
- 4800 MHz DDR5 memory for Intel servers
- 4800 MHz DDR5 memory for AMD servers

- 3200 MHz DDR4 memory for Intel servers
- 3200 MHz DDR4 memory for AMD servers
- 2933 MHz DDR4 memory for Intel servers

Note: Lenovo branded memory shipped as option part numbers, as FRU service parts, or installed in the factory as part of a CTO order, may contain memory parts that *exceed* the technical specification of what is printed on the DIMM label or is stated in the DIMM ordering information. For example, a part labelled as 4800MHz may actually be a 5600MHz DIMM. Your server's system UEFI firmware may need to be updated to support such DIMMs.

See the following Lenovo Support Tips for additional information:

- DDR4 memory backwards compatibility: HT509191
- DDR5 memory backwards compatibility: TT1185

CXL memory for Intel servers

Table 1. CXL memory for Intel servers

Part number	Feature code	Description
CXL Memory		
4X77A91000	C0TW	ThinkSystem 96GB E3.S 2T CXL DIMM
4X77A91001	C0TV	ThinkSystem 128GB E3.S 2T CXL DIMM

CLX memory requires operating system support. See the Operating system support section for details.

For more information, see the Lenovo Press article, Introduction To CXL 2.0 Memory.

8800 MHz MRDIMM memory for Intel servers

Table 2. 8800 MHz MRDIMM memory for Intel servers

Part number	Feature code	Description
MRDIMMs		
4X77A90999	C0TX	ThinkSystem 64GB TruDDR5 8800MHz (2Rx4) MRDIMM

For more information, see the Lenovo Press article, Introduction to MRDIMM Memory Technology.

6400 MHz DDR5 memory for Intel servers

Table 3. 6400 MHz DDR5 memory for Intel servers

Part number	Feature code	Description	DRAM technology
x4 RDIMMs			
4X77A90964	C0U9	ThinkSystem 32GB TruDDR5 6400MHz (1Rx4) RDIMM	16Gb
4X77A90966	C0TQ	ThinkSystem 64GB TruDDR5 6400MHz (2Rx4) RDIMM	16Gb
4X77A90997	BZ7D	ThinkSystem 96GB TruDDR5 6400MHz (2Rx4) RDIMM	24Gb
4X77A90993	C0U1	ThinkSystem 128GB TruDDR5 6400MHz (2Rx4) RDIMM	32Gb
x8 RDIMMs			
4X77A90963	C0U2	ThinkSystem 16GB TruDDR5 6400MHz (1Rx8) RDIMM	16Gb
4X77A90965	BYTJ	ThinkSystem 32GB TruDDR5 6400MHz (2Rx8) RDIMM	16Gb
3DS RDIMMs			
4X77A90994	C0U0	ThinkSystem 256GB TruDDR5 6400MHz (4Rx4) 3DS RDIMM	16Gb

For more information on DDR5 memory, see the Lenovo Press paper, *Introduction to DDR5 Memory*, available from https://lenovopress.com/lp1618.

6400 MHz DDR5 memory for AMD servers

6000 MHz vs 6400 MHz memory: Some memory options labeled as 6400 MHz are only supported up to 6000 MHz. See the groupings in the table below.

Table 4. 6400 MHz DDR5 memory for AMD servers

Part number	Feature code	Description	DRAM technology
x4 RDIMMs - supported up to 6400 MHz			
4X77B07418	CA1J	ThinkSystem 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	16Gb
4X77B09750	CBN9	ThinkSystem SR635 V3/SR655 V3 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	16Gb
4X77B09790	CBNB	ThinkSystem SR645 V3/SR665 V3 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	16Gb
4X77B07420	CA1L	ThinkSystem 64GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	16Gb
4X77B09643	CBFR	ThinkSystem SR635 V3/SR655 V3 64GB TruDDR5 6400MT/s (2Rx4) RDIMM-A v2	16Gb
4X77B09788	CBND	ThinkSystem SR645 V3/SR665 V3 64GB TruDDR5 6400MT/s (2Rx4) RDIMM-A v2	16Gb
4X77B07424	CA1Q	ThinkSystem 96GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	24Gb
4X77B07421	CA1M	ThinkSystem 128GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	32Gb
x8 RDIMMs - supported up to 6400 MHz			
4X77B07417	CA1H	ThinkSystem 16GB TruDDR5 6400MHz (1Rx8) RDIMM-A v2	16Gb
4X77B10304	CC0A	ThinkSystem SR645 V3/SR665 V3 16GB TruDDR5 6400MT/s (1Rx8) RDIMM-A v2	16Gb
4X77B10268	CC0B	ThinkSystem SR635 V3/SR655 V3 16GB TruDDR5 6400MT/s (1Rx8) RDIMM-A v2	16Gb
4X77B07419	CA1K	ThinkSystem 32GB TruDDR5 6400MHz (2Rx8) RDIMM-A v2	16Gb
4X77B09751	CBNA	ThinkSystem SR635 V3/SR655 V3 32GB TruDDR5 6400MT/s (2Rx8) RDIMM-A v2	16Gb
4X77B09789	CBNC	ThinkSystem SR645 V3/SR665 V3 32GB TruDDR5 6400MT/s (2Rx8) RDIMM-A v2	16Gb
10x4 3DS RDIMMs - supported up to 6000 MHz			
4X77B07422	CA1N	ThinkSystem 256GB TruDDR5 6400MHz (4Rx4) 3DS RDIMM-A	16Gb

For more information on DDR5 memory, see the Lenovo Press paper, *Introduction to DDR5 Memory*, available from https://lenovopress.com/lp1618.

5600MHz SODIMMs and 6400MHz CSODIMMs

Table 5. 5600MHz SODIMMs and 6400MHz CSODIMMs

Part number	Feature code	Description
5600MHz SODIMMs and 6400MHz CSODIMMs		
4X77A93599	C39L	ThinkEdge 16GB TruDDR5 5600MHz (1Rx8) SODIMM
4X77A93600	C39M	ThinkEdge 32GB TruDDR5 5600MHz (2Rx8) SODIMM
4X77A96508	C39J	ThinkEdge 16GB TruDDR5 6400MHz CSODIMM
4X77A96509	C39K	ThinkEdge 32GB TruDDR5 6400MHz CSODIMM

5600 MHz DDR5 memory for AMD servers

Table 6. 5600 MHz DDR5 memory for AMD servers

Part number	Feature code	Description
DDR5 UDIMMs - 5600 MHz		
4X77A93557	C1G6	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) ECC UDIMM-A
4X77A93556	C1G7	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) ECC UDIMM-A

5600 MHz DDR5 memory for Intel servers

Table 7. 5600 MHz DDR5 memory for Intel servers

Part number	Feature code	Description	DRAM technology
x4 RDIMMs - 5600 MHz			
4X77A88052	BWHS	ThinkSystem 64GB TruDDR5 5600MHz (2Rx4) RDIMM	16Gb
4X77B00032	C5H9	ThinkSystem 64GB TruDDR5 5600MHz (2Rx4) 10x4 RDIMM	16Gb
4X77A88058	BWHV	ThinkSystem 96GB TruDDR5 5600MHz (2Rx4) RDIMM	24Gb
4X77B00033	C5HA	ThinkSystem 96GB TruDDR5 5600MHz (2Rx4) 10x4 RDIMM	24Gb
4X77A93887	C4EA	ThinkSystem 128GB TruDDR5 5600MHz (2Rx4) RDIMM	32Gb
x8 RDIMMs - 5600 MHz			
4X77A88087	BWJE	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) RDIMM	16Gb
4X77A88051	BWJC	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) RDIMM	16Gb
3DS RDIMMs - 5600 MHz			
4X77A88055	BX8X	ThinkSystem 256GB TruDDR5 5600 MHz (8Rx4) 3DS RDIMM	16Gb
UDIMMs - 5600 MHz			
4X77A99751	C527	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) ECC UDIMM	16Gb
4X77A99752	C528	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) ECC UDIMM	16Gb

For more information on DDR5 memory, see the Lenovo Press paper, *Introduction to DDR5 Memory*, available from https://lenovopress.com/lp1618.

4800 MHz DDR5 memory for Intel servers

Table 8. 4800 MHz DDR5 memory for Intel servers

Part number	Feature code	Description
DDR5 10x4 RDIMMs - 4800 MHz		
4X77A77032	BNF9	ThinkSystem 64GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM
4X77A94006	C0W8	ThinkSystem SR950 V3 64GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM
4X77A87034	BZC2	ThinkSystem 96GB TruDDR5 4800MHz (2Rx4) RDIMM
DDR5 x8 RDIMMs - 4800 MHz		
4X77A77029	BKTL	ThinkSystem 16GB TruDDR5 4800MHz (1Rx8) RDIMM
4X77A77031	BKTM	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) RDIMM
DDR5 UDIMMs - 4800 MHz		
4X77A88512	BWLJ	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) ECC UDIMM

For more information on DDR5 memory, see the Lenovo Press paper, *Introduction to DDR5 Memory*, available from https://lenovopress.com/lp1618.

4800 MHz DDR5 memory for AMD servers

Table 9. 4800 MHz DDR5 memory for AMD servers

Part number	Feature code	Description
DDR5 10x4 RDIMMs - 4800 MHz (5600 MHz operates at 4800 MHz)		
4X77A81441	BQ3D	ThinkSystem 64GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM-A
4X77A81448	BUVV	ThinkSystem 96GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM-A
4X77A96982	C467	ThinkSystem 128GB TruDDR5 5600MHz (2Rx4) RDIMM-A
DDR5 x8 RDIMMs - 4800 MHz		
4X77A81437	BQ3C	ThinkSystem 16GB TruDDR5 4800MHz (1Rx8) RDIMM-A
4X77A81440	BQ37	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) RDIMM-A

For more information on DDR5 memory, see the Lenovo Press paper, *Introduction to DDR5 Memory*, available from https://lenovopress.com/lp1618.

3200 MHz DDR4 memory for Intel servers

Table 10. 3200 MHz TruDDR4 DIMMs for Intel processor-based servers

Part number	Feature code	Description
3200 MHz RDIMMs for Intel processor-based servers		
4X77A08632	B963	ThinkSystem 16GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM
3200 MHz RDIMMs for the ThinkSystem SE350		
4X77A85855	BV0C	ThinkSystem SE350 16GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM

3200 MHz DDR4 memory for AMD servers

Table 11. 3200 MHz TruDDR4 DIMMs for AMD processor-based servers

Part number	Feature code	Description
3200 MHz RDIMMs for AMD processor-based servers		

Part number	Feature code	Description
4ZC7A15121	B5XD	ThinkSystem 16GB TruDDR4 3200MHz (2Rx8 1.2V) RDIMM-A

2933 MHz DDR4 memory for Intel servers

Table 12. 2933 MHz TruDDR4 DIMMs for Intel processor-based servers

Part number	Feature code	Description
2933 MHz RDIMMs for Intel processor-based servers		
4ZC7A08706	B4H1	ThinkSystem 8GB TruDDR4 2933MHz (1Rx8 1.2V) RDIMM
4ZC7A08707	B4LY	ThinkSystem 16GB TruDDR4 2933 MHz (1Rx4 1.2V) RDIMM
4ZC7A08708	B4H2	ThinkSystem 16GB TruDDR4 2933MHz (2Rx8 1.2V) RDIMM

Server Support

Configurations notes:

- Some 2666 MHz memory is only supported with Gen 1 Xeon Scalable processors (codenamed "Skylake"), whereas other 2666 MHz memory is only supported with Gen 2 Xeon Scalable processors (codenamed "Cascade Lake"). These are indicated with the (1) and (2) footnotes in the table, respectively.
- 2933 MHz memory is not supported by Intel Xeon SP Gen 1 processors
- The support of 32GB UDIMMs on ST50, ST250, SR150 and SR250 requires a Intel Xeon E Series processor and UEFI firmware ISE114H or later
- 2666 MHz Persistent Memory is only supported by Intel Xeon SP Gen 2 processors
- 3200 MHz Persistent Memory is only supported by Intel Xeon SP Gen 3 processors
- Some servers support mixing memory speeds; all memory will operate at the lowest speed

Note: Lenovo branded memory shipped as option part numbers, as FRU service parts, or installed in the factory as part of a CTO order, may contain memory parts that *exceed* the technical specification of what is printed on the DIMM label or is stated in the DIMM ordering information. For example, a part labelled as 4800MHz may actually be a 5600MHz DIMM. Your server's system UEFI firmware may need to be updated to support such DIMMs.

See the following Lenovo Support Tips for additional information:

- DDR4 memory backwards compatibility: HT509191
- DDR5 memory backwards compatibility: TT1185

The following tables list the ThinkSystem servers that are compatible, grouped by server form factor or processor - Part 1, Part 2, Part 3, Part 4, and Part 5.

Table 13. Server Support - Current servers (Part 1 of 2)

Part Number	Description	AMD V3					2S Intel V3/V4						1S V3				4S 8S Intel V3/V4				
		SR635 V3 (7D9H / 7D9G)	SR655 V3 (7D9F / 7D9E)	SR645 V3 (7D9D / 7D9C)	SR665 V3 (7D9B / 7D9A)	SD535 V3 (7DD8 / 7DD1)	ST650 V3 (7D7B / 7D7A)	SR630 V3 (7D72 / 7D73)	SR650 V3 (7D75 / 7D76)	SR630 V4 (7DG8 / 7DG9)	SR650 V4 (7DGC / 7DGD)	SR650a V4 (7DGC / 7DGD)	ST45 V3 (7DH4 / 7DH5)	ST50 V3 (7DF4 / 7DF3)	ST250 V3 (7DCF / 7DCE)	SR250 V3 (7DCM / 7DCL)	SR850 V3 (7D97 / 7D96)	SR860 V3 (7D94 / 7D93)	SR950 V3 (7DC5 / 7DC4)	SR850 V4 (7DJT / 7DJS)	SR860 V4 (7DJQ / 7DJN)
CXL Memory for Intel processor-based servers																					
4X77A91000	ThinkSystem 96GB E3.S 2T CXL DIMM	N	N	N	N	N	N	N	N	Y	Y	N	N	N	N	N	N	N	N	Y	Y
4X77A91001	ThinkSystem 128GB E3.S 2T CXL DIMM	N	N	N	N	N	N	N	N	Y	Y	N	N	N	N	N	N	N	N	Y	Y
MRDIMMs - 8800 MHz for Intel processor-based servers																					
4X77A90999	ThinkSystem 64GB TruDDR5 8800MHz (2Rx4) MRDIMM	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N
DDR5 x4 RDIMMs - 6400 MHz for Intel processor-based servers																					
4X77A90964	ThinkSystem 32GB TruDDR5 6400MHz (1Rx4) RDIMM	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y
4X77A90966	ThinkSystem 64GB TruDDR5 6400MHz (2Rx4) RDIMM	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y
4X77A90997	ThinkSystem 96GB TruDDR5 6400MHz (2Rx4) RDIMM	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y
4X77A90993	ThinkSystem 128GB TruDDR5 6400MHz (2Rx4) RDIMM	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y
DDR5 x8 RDIMMs - 6400 MHz for Intel processor-based servers																					
4X77A90963	ThinkSystem 16GB TruDDR5 6400MHz (1Rx8) RDIMM	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N
4X77A90965	ThinkSystem 32GB TruDDR5 6400MHz (2Rx8) RDIMM	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N
DDR 3DS RDIMMs - 6400 MHz for Intel processor-based servers																					
4X77A90994	ThinkSystem 256GB TruDDR5 6400MHz (4Rx4) 3DS RDIMM	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y
x4 RDIMMs - supported up to 6400 MHz for AMD processor-based servers																					
4X77B07418	ThinkSystem 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B09750	ThinkSystem SR635 V3/SR655 V3 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B09790	ThinkSystem SR645 V3/SR665 V3 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B07420	ThinkSystem 64GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Part Number	Description	AMD V3					2S Intel V3/V4						1S V3				4S 8S Intel V3/V4				
		SR635 V3 (7D9H / 7D9G)	SR655 V3 (7D9F / 7D9E)	SR645 V3 (7D9D / 7D9C)	SR665 V3 (7D9B / 7D9A)	SD535 V3 (7DD8 / 7DD1)	ST650 V3 (7D7B / 7D7A)	SR630 V3 (7D72 / 7D73)	SR650 V3 (7D75 / 7D76)	SR630 V4 (7DG8 / 7DG9)	SR650 V4 (7DGC / 7DGD)	SR650a V4 (7DGC / 7DGD)	ST45 V3 (7DH4 / 7DH5)	ST50 V3 (7DF4 / 7DF3)	ST250 V3 (7DCF / 7DCE)	SR250 V3 (7DCM / 7DCL)	SR850 V3 (7D97 / 7D96)	SR860 V3 (7D94 / 7D93)	SR950 V3 (7DC5 / 7DC4)	SR850 V4 (7DJT / 7DJS)	SR860 V4 (7DJQ / 7DJN)
4X77B09643	ThinkSystem SR635 V3/SR655 V3 64GB TruDDR5 6400MT/s (2Rx4) RDIMM-A v2	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B09788	ThinkSystem SR645 V3/SR665 V3 64GB TruDDR5 6400MT/s (2Rx4) RDIMM-A v2	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B07424	ThinkSystem 96GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B07421	ThinkSystem 128GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
x8 RDIMMs - supported up to 6400 MHz for AMD processor-based servers																						
4X77B07417	ThinkSystem 16GB TruDDR5 6400MHz (1Rx8) RDIMM-A v2	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B10304	ThinkSystem SR645 V3/SR665 V3 16GB TruDDR5 6400MT/s (1Rx8) RDIMM-A v2	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B10268	ThinkSystem SR635 V3/SR655 V3 16GB TruDDR5 6400MT/s (1Rx8) RDIMM-A v2	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B07419	ThinkSystem 32GB TruDDR5 6400MHz (2Rx8) RDIMM-A v2	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B09751	ThinkSystem SR635 V3/SR655 V3 32GB TruDDR5 6400MT/s (2Rx8) RDIMM-A v2	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77B09789	ThinkSystem SR645 V3/SR665 V3 32GB TruDDR5 6400MT/s (2Rx8) RDIMM-A v2	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
10x4 3DS RDIMMs - supported up to 6000 MHz for AMD processor-based servers																						
4X77B07422	ThinkSystem 256GB TruDDR5 6400MHz (4Rx4) 3DS RDIMM-A	Y	Y	Y	Y[1]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
5600MHz SODIMMs and 6400MHz CSODIMMs																						
4X77A93599	ThinkEdge 16GB TruDDR5 5600MHz (1Rx8) SODIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77A93600	ThinkEdge 32GB TruDDR5 5600MHz (2Rx8) SODIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77A96508	ThinkEdge 16GB TruDDR5 6400MHz CSODIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77A96509	ThinkEdge 32GB TruDDR5 6400MHz CSODIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Part Number	Description	AMD V3					2S Intel V3/V4						1S V3				4S 8S Intel V3/V4				
		SR635 V3 (7D9H / 7D9G)	SR655 V3 (7D9F / 7D9E)	SR645 V3 (7D9D / 7D9C)	SR665 V3 (7D9B / 7D9A)	SD535 V3 (7DD8 / 7DD1)	ST650 V3 (7D7B / 7D7A)	SR630 V3 (7D72 / 7D73)	SR650 V3 (7D75 / 7D76)	SR630 V4 (7DG8 / 7DG9)	SR650 V4 (7DGC / 7DGD)	SR650a V4 (7DGC / 7DGD)	ST45 V3 (7DH4 / 7DH5)	ST50 V3 (7DF4 / 7DF3)	ST250 V3 (7DCF / 7DCE)	SR250 V3 (7DCM / 7DCL)	SR850 V3 (7D97 / 7D96)	SR860 V3 (7D94 / 7D93)	SR950 V3 (7DC5 / 7DC4)	SR850 V4 (7DJT / 7DJS)	SR860 V4 (7DJQ / 7DJN)
DDR5 UDIMMs - 5600 MHz for AMD																					
4X77A93557	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) ECC UDIMM-A	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N
4X77A93556	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) ECC UDIMM-A	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N
x4 RDIMMs - 5600 MHz for Intel processor-based servers																					
4X77A88052	ThinkSystem 64GB TruDDR5 5600MHz (2Rx4) RDIMM	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N
4X77B00032	ThinkSystem 64GB TruDDR5 5600MHz (2Rx4) 10x4 RDIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77A88058	ThinkSystem 96GB TruDDR5 5600MHz (2Rx4) RDIMM	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N
4X77B00033	ThinkSystem 96GB TruDDR5 5600MHz (2Rx4) 10x4 RDIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77A93887	ThinkSystem 128GB TruDDR5 5600MHz (2Rx4) RDIMM	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y	Y	N	N
x8 RDIMMs - 5600 MHz for Intel processor-based servers																					
4X77A88087	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) RDIMM	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N
4X77A88051	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) RDIMM	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N
3DS RDIMMs - 5600 MHz																					
4X77A88055	ThinkSystem 256GB TruDDR5 5600 MHz (8Rx4) 3DS RDIMM	N	N	N	N	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N
UDIMMs - 5600 MHz																					
4X77A99751	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) ECC UDIMM	N	N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N
4X77A99752	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) ECC UDIMM	N	N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N
DDR5 10x4 RDIMMs - 4800 MHz																					
4X77A77032	ThinkSystem 64GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y	Y	N	N
4X77A87034	ThinkSystem 96GB TruDDR5 4800MHz (2Rx4) RDIMM	N	N	N	N	N	N	Y	Y	N	N	N	N	N	N	N	Y	Y	Y	N	N
DDR5 x8 RDIMMs - 4800 MHz																					
4X77A77029	ThinkSystem 16GB TruDDR5 4800MHz (1Rx8) RDIMM	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y	N	N	N

Part Number	Description	AMD V3					2S Intel V3/V4						1S V3				4S 8S Intel V3/V4				
		SR635 V3 (7D9H / 7D9G)	SR655 V3 (7D9F / 7D9E)	SR645 V3 (7D9D / 7D9C)	SR665 V3 (7D9B / 7D9A)	SD535 V3 (7DD8 / 7DD1)	ST650 V3 (7D7B / 7D7A)	SR630 V3 (7D72 / 7D73)	SR650 V3 (7D75 / 7D76)	SR630 V4 (7DG8 / 7DG9)	SR650 V4 (7DGC / 7DGD)	SR650a V4 (7DGC / 7DGD)	ST45 V3 (7DH4 / 7DH5)	ST50 V3 (7DF4 / 7DF3)	ST250 V3 (7DCF / 7DCE)	SR250 V3 (7DCM / 7DCL)	SR850 V3 (7D97 / 7D96)	SR860 V3 (7D94 / 7D93)	SR950 V3 (7DC5 / 7DC4)	SR850 V4 (7DJT / 7DJS)	SR860 V4 (7DJQ / 7DJN)
4X77A77031	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) RDIMM	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	Y	Y	N	N	N
4800 MHz DDR5 10x4 3DS RDIMMs for Intel processor-based servers																					
BY8F	ThinkSystem 128GB TruDDR5 4800MHz (4Rx4) 3DS RDIMM v1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DDR5 UDIMMs - 4800 MHz for Intel processor-based servers																					
4X77A88512	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) ECC UDIMM	N	N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N
4800 MHz DDR5 10x4 RDIMMs for AMD processor-based servers																					
4X77A81441	ThinkSystem 64GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM-A	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77A81448	ThinkSystem 96GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM-A	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77A96982	ThinkSystem 128GB TruDDR5 5600MHz (2Rx4) RDIMM-A	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4800 MHz DDR5 x8 RDIMMs for AMD processor-based servers																					
4X77A81437	ThinkSystem 16GB TruDDR5 4800MHz (1Rx8) RDIMM-A	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4X77A81440	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) RDIMM-A	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3200 MHz DDR4 RDIMMs for Intel processor-based servers																					
4X77A08632	ThinkSystem 16GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3200 MHz RDIMMs for the ThinkSystem SE350																					
4X77A85855	ThinkSystem SE350 16GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3200 MHz DDR4 RDIMMs for AMD processor-based servers																					
4ZC7A15121	ThinkSystem 16GB TruDDR4 3200MHz (2Rx8 1.2V) RDIMM-A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2933 MHz DDR4 RDIMMs for Intel processor-based servers																					
4ZC7A08706	ThinkSystem 8GB TruDDR4 2933MHz (1Rx8 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4ZC7A08707	ThinkSystem 16GB TruDDR4 2933 MHz (1Rx4 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4ZC7A08708	ThinkSystem 16GB TruDDR4 2933MHz (2Rx8 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

1. When adding this DIMM as a field upgrade, follow the instructions in Support tip TT3220

Table 14. Server Support - Current servers (Part 2 of 2)

Part Number	Description	AI Servers					Edge		Super computing		
		SR675 V3 (7D9Q / 7D9R)	SR680a V3 B200 (7DM9)	SR685a V3 (7DHC)	SR780a V3 (7DJ5)	SR680a V4 (7DMK)	SE100 (7DGR)	SE455 V3 (7DBY)	SC750 V4 (7DDJ)	SC777 V4 (7DKA)	SD665 V3 (7D9P)
CXL Memory for Intel processor-based servers											
4X77A91000	ThinkSystem 96GB E3.S 2T CXL DIMM	N	N	N	N	N	N	N	N	N	N
4X77A91001	ThinkSystem 128GB E3.S 2T CXL DIMM	N	N	N	N	N	N	N	N	N	N
MRDIMMs - 8800 MHz for Intel processor-based servers											
4X77A90999	ThinkSystem 64GB TruDDR5 8800MHz (2Rx4) MRDIMM	N	N	N	N	N	N	N	Y	N	N
DDR5 x4 RDIMMs - 6400 MHz for Intel processor-based servers											
4X77A90964	ThinkSystem 32GB TruDDR5 6400MHz (1Rx4) RDIMM	N	N	N	N	N	N	N	N	N	N
4X77A90966	ThinkSystem 64GB TruDDR5 6400MHz (2Rx4) RDIMM	N	N	N	N	Y	N	N	Y	N	N
4X77A90997	ThinkSystem 96GB TruDDR5 6400MHz (2Rx4) RDIMM	N	N	N	N	Y	N	N	Y	N	N
4X77A90993	ThinkSystem 128GB TruDDR5 6400MHz (2Rx4) RDIMM	N	N	N	N	Y	N	N	Y	N	N
DDR5 x8 RDIMMs - 6400 MHz for Intel processor-based servers											
4X77A90963	ThinkSystem 16GB TruDDR5 6400MHz (1Rx8) RDIMM	N	N	N	N	N	N	N	N	N	N
4X77A90965	ThinkSystem 32GB TruDDR5 6400MHz (2Rx8) RDIMM	N	N	N	N	N	N	N	Y	N	N
DDR 3DS RDIMMs - 6400 MHz for Intel processor-based servers											
4X77A90994	ThinkSystem 256GB TruDDR5 6400MHz (4Rx4) 3DS RDIMM	N	N	N	N	N	N	N	N	N	N
x4 RDIMMs - supported up to 6400 MHz for AMD processor-based servers											
4X77B07418	ThinkSystem 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N
4X77B09750	ThinkSystem SR635 V3/SR655 V3 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N
4X77B09790	ThinkSystem SR645 V3/SR665 V3 32GB TruDDR5 6400MHz (1Rx4) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N
4X77B07420	ThinkSystem 64GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	Y	N	N	N	N	N	N	N	N	Y
4X77B09643	ThinkSystem SR635 V3/SR655 V3 64GB TruDDR5 6400MT/s (2Rx4) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N
4X77B09788	ThinkSystem SR645 V3/SR665 V3 64GB TruDDR5 6400MT/s (2Rx4) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N
4X77B07424	ThinkSystem 96GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	Y	N	N	N	N	N	N	N	N	Y
4X77B07421	ThinkSystem 128GB TruDDR5 6400MHz (2Rx4) RDIMM-A v2	Y	N	N	N	N	N	N	N	N	Y
x8 RDIMMs - supported up to 6400 MHz for AMD processor-based servers											
4X77B07417	ThinkSystem 16GB TruDDR5 6400MHz (1Rx8) RDIMM-A v2	Y	N	N	N	N	N	N	N	N	Y
4X77B10304	ThinkSystem SR645 V3/SR665 V3 16GB TruDDR5 6400MT/s (1Rx8) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N

Part Number	Description	AI Servers					Edge		Super computing		
		SR675 V3 (7D9Q / 7D9R)	SR680a V3 B200 (7DM9)	SR685a V3 (7DHC)	SR780a V3 (7DJ5)	SR680a V4 (7DMK)	SE100 (7DGR)	SE455 V3 (7DBY)	SC750 V4 (7DDJ)	SC777 V4 (7DKA)	SD665 V3 (7D9P)
4X77B10268	ThinkSystem SR635 V3/SR655 V3 16GB TruDDR5 6400MT/s (1Rx8) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N
4X77B07419	ThinkSystem 32GB TruDDR5 6400MHz (2Rx8) RDIMM-A v2	Y	N	N	N	N	N	N	N	N	Y
4X77B09751	ThinkSystem SR635 V3/SR655 V3 32GB TruDDR5 6400MT/s (2Rx8) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N
4X77B09789	ThinkSystem SR645 V3/SR665 V3 32GB TruDDR5 6400MT/s (2Rx8) RDIMM-A v2	N	N	N	N	N	N	N	N	N	N
10x4 3DS RDIMMs - supported up to 6000 MHz for AMD processor-based servers											
4X77B07422	ThinkSystem 256GB TruDDR5 6400MHz (4Rx4) 3DS RDIMM-A	Y	N	N	N	N	N	N	N	N	N
5600MHz SODIMMs and 6400MHz CSODIMMs											
4X77A93599	ThinkEdge 16GB TruDDR5 5600MHz (1Rx8) SODIMM	N	N	N	N	N	Y	N	N	N	N
4X77A93600	ThinkEdge 32GB TruDDR5 5600MHz (2Rx8) SODIMM	N	N	N	N	N	Y	N	N	N	N
4X77A96508	ThinkEdge 16GB TruDDR5 6400MHz CSODIMM	N	N	N	N	N	Y	N	N	N	N
4X77A96509	ThinkEdge 32GB TruDDR5 6400MHz CSODIMM	N	N	N	N	N	Y	N	N	N	N
DDR5 UDIMMs - 5600 MHz for AMD											
4X77A93557	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) ECC UDIMM-A	N	N	N	N	N	N	N	N	N	N
4X77A93556	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) ECC UDIMM-A	N	N	N	N	N	N	N	N	N	N
x4 RDIMMs - 5600 MHz for Intel processor-based servers											
4X77A88052	ThinkSystem 64GB TruDDR5 5600MHz (2Rx4) RDIMM	N	N	N	N	N	N	N	N	N	N
4X77B00032	ThinkSystem 64GB TruDDR5 5600MHz (2Rx4) 10x4 RDIMM	N	Y	N	Y	N	N	N	N	N	N
4X77A88058	ThinkSystem 96GB TruDDR5 5600MHz (2Rx4) RDIMM	N	N	N	N	N	N	N	N	N	N
4X77B00033	ThinkSystem 96GB TruDDR5 5600MHz (2Rx4) 10x4 RDIMM	N	Y	N	Y	N	N	N	N	N	N
4X77A93887	ThinkSystem 128GB TruDDR5 5600MHz (2Rx4) RDIMM	N	Y	N	Y	N	N	N	N	N	N
x8 RDIMMs - 5600 MHz for Intel processor-based servers											
4X77A88087	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) RDIMM	N	N	N	N	N	N	N	N	N	N
4X77A88051	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) RDIMM	N	N	N	N	N	N	N	N	N	N
3DS RDIMMs - 5600 MHz											
4X77A88055	ThinkSystem 256GB TruDDR5 5600 MHz (8Rx4) 3DS RDIMM	N	N	N	N	N	N	N	N	N	N
UDIMMs - 5600 MHz											
4X77A99751	ThinkSystem 16GB TruDDR5 5600MHz (1Rx8) ECC UDIMM	N	N	N	N	N	N	N	N	N	N
4X77A99752	ThinkSystem 32GB TruDDR5 5600MHz (2Rx8) ECC UDIMM	N	N	N	N	N	N	N	N	N	N
DDR5 10x4 RDIMMs - 4800 MHz											
4X77A77032	ThinkSystem 64GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM	N	N	N	N	N	N	N	N	N	N
4X77A87034	ThinkSystem 96GB TruDDR5 4800MHz (2Rx4) RDIMM	N	N	N	N	N	N	N	N	N	N
DDR5 x8 RDIMMs - 4800 MHz											

Part Number	Description	AI Servers					Edge		Super computing		
		SR675 V3 (7D9Q / 7D9R)	SR680a V3 B200 (7DM9)	SR685a V3 (7DHC)	SR780a V3 (7DJ5)	SR680a V4 (7DMK)	SE100 (7DGR)	SE455 V3 (7DBY)	SC750 V4 (7DDJ)	SC777 V4 (7DKA)	SD665 V3 (7D9P)
4X77A77029	ThinkSystem 16GB TruDDR5 4800MHz (1Rx8) RDIMM	N	N	N	N	N	N	N	N	N	N
4X77A77031	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) RDIMM	N	N	N	N	N	N	N	N	N	N
4800 MHz DDR5 10x4 3DS RDIMMs for Intel processor-based servers											
BY8F	ThinkSystem 128GB TruDDR5 4800MHz (4Rx4) 3DS RDIMM v1	N	N	N	N	N	N	N	N	N	N
DDR5 UDIMMs - 4800 MHz for Intel processor-based servers											
4X77A88512	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) ECC UDIMM	N	N	N	N	N	N	N	N	N	N
4800 MHz DDR5 10x4 RDIMMs for AMD processor-based servers											
4X77A81441	ThinkSystem 64GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM-A	Y	N	Y	N	N	N	Y	N	N	Y
4X77A81448	ThinkSystem 96GB TruDDR5 4800MHz (2Rx4) 10x4 RDIMM-A	Y	N	Y	N	N	N	Y	N	N	Y
4X77A96982	ThinkSystem 128GB TruDDR5 5600MHz (2Rx4) RDIMM-A	Y	N	Y	N	N	N	Y	N	N	Y
4800 MHz DDR5 x8 RDIMMs for AMD processor-based servers											
4X77A81437	ThinkSystem 16GB TruDDR5 4800MHz (1Rx8) RDIMM-A	Y	N	N	N	N	N	Y	N	N	Y
4X77A81440	ThinkSystem 32GB TruDDR5 4800MHz (2Rx8) RDIMM-A	Y	N	N	N	N	N	Y	N	N	Y
3200 MHz DDR4 RDIMMs for Intel processor-based servers											
4X77A08632	ThinkSystem 16GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N
3200 MHz RDIMMs for the ThinkSystem SE350											
4X77A85855	ThinkSystem SE350 16GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N
3200 MHz DDR4 RDIMMs for AMD processor-based servers											
4ZC7A15121	ThinkSystem 16GB TruDDR4 3200MHz (2Rx8 1.2V) RDIMM-A	N	N	N	N	N	N	N	N	N	N
2933 MHz DDR4 RDIMMs for Intel processor-based servers											
4ZC7A08706	ThinkSystem 8GB TruDDR4 2933MHz (1Rx8 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N
4ZC7A08707	ThinkSystem 16GB TruDDR4 2933 MHz (1Rx4 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N
4ZC7A08708	ThinkSystem 16GB TruDDR4 2933MHz (2Rx8 1.2V) RDIMM	N	N	N	N	N	N	N	N	N	N

Operating system support

Most memory is operating system independent, however the following memory is supported only by specific operating systems as listed in the following tables:

- CXL Memory
- Intel Optane Persistent Memory 200 Series

CXL Memory

The following table lists the OS support for CXL Memory.

Table 18. Operating system support for ThinkSystem 96GB E3.S 2T CXL DIMM, 4X77A91000

Operating systems	SR630 V4	SR650 V4/SR650a V4	SR850 V4	SR860 V4
Red Hat Enterprise Linux 9.4	Y	Y	N	N
Red Hat Enterprise Linux 9.5	Y	Y	N	N
Red Hat Enterprise Linux 9.6	Y	Y	Y	Y
Red Hat Enterprise Linux 10.0	Y	Y	Y	Y
SUSE Linux Enterprise Server 15 SP6	Y	Y	N	N
SUSE Linux Enterprise Server 15 SP7	Y	Y	Y	Y
SUSE Linux Enterprise Server 16	Y	Y	Y	Y
Ubuntu 22.04.5 LTS or later with HWE kernel	Y	Y	Y	Y
Ubuntu 24.04 LTS or later with HWE kernel	Y	Y	Y	Y

Intel Optane Persistent Memory 200 Series

The following table lists the OS support for Intel Optane Persistent Memory 200 Series.

Table 19. Operating system support for ThinkSystem 128GB TruDDR4 3200MHz (1.2V) Intel Optane Persistent Memory, 4ZC7A08732

Operating systems	SR630 V2	SR650 V2	SR670 V2	ST650 V2	ST650 V2	SN550 V2	SE450
Microsoft Windows Server 2019	Y	N	Y	Y	Y	Y	Y
Microsoft Windows Server 2022	Y	Y	Y	Y	Y	Y	Y
Microsoft Windows Server 2025	Y	Y	Y	Y	Y	N	Y
Red Hat Enterprise Linux 8.2	N	N	Y	Y	Y	Y	N
Red Hat Enterprise Linux 8.3	Y	N	Y	Y	Y	Y	N
Red Hat Enterprise Linux 8.4	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 8.5	Y	Y	Y	Y	Y	Y	Y

Operating systems	SR630 V2	SR650 V2	SR670 V2	ST650 V2	ST650 V2	SN550 V2	SE450
Red Hat Enterprise Linux 8.6	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 8.7	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 8.8	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 8.9	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 8.10	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 9.0	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 9.1	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 9.2	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 9.3	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 9.4	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 9.5	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 9.6	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 9.7	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 10.0	Y	Y	Y	Y	Y	N	Y
Red Hat Enterprise Linux 10.1	Y	Y	Y	Y	Y	N	Y
Red Hat Enterprise Linux 10.2	Y	Y	Y	Y	Y	N	Y
SUSE Linux Enterprise Server 15 SP2	N	N	Y	Y	Y	Y	N
SUSE Linux Enterprise Server 15 SP2 with Xen	N	N	Y	Y	Y	Y	N
SUSE Linux Enterprise Server 15 SP3	Y	Y	Y	Y	Y	Y	N
SUSE Linux Enterprise Server 15 SP3 with Xen	Y	Y	Y	Y	Y	Y	N
SUSE Linux Enterprise Server 15 SP4	Y	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 15 SP4 with Xen	Y	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 15 SP5	Y	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 15 SP5 with Xen	Y	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 15 SP6	Y	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 15 SP7	Y	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 16	Y	Y	N	N	N	N	Y
Ubuntu 22.04 LTS or later with HWE kernel	Y	Y	Y	Y	Y	Y	N
VMware vSphere Hypervisor (ESXi) 7.0 U3	N	N	N	Y	Y	N	N

Learn More

For more information, see these resources:

- Intel Optane DC Persistent Memory product guide
  https://lenovopress.com/lp1066-intel-optane-dc-persistent-memory
- Optimizing Memory Performance of Lenovo ThinkSystem Servers
  https://lenovopress.com/lp0697-optimizing-memory-performance-of-lenovo-thinksystem-servers
- Lenovo ThinkSystem SD530 Performance Considerations with 12 DIMMs and 16 DIMMs
  https://lenovopress.com/lp0659-thinksystem-sd530-performance-considerations
- ThinkSystem Memory Configurator
  https://dcsc.lenovo.com/#/memory_configuration

Related product families

Product families related to this document are the following:

- Memory

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