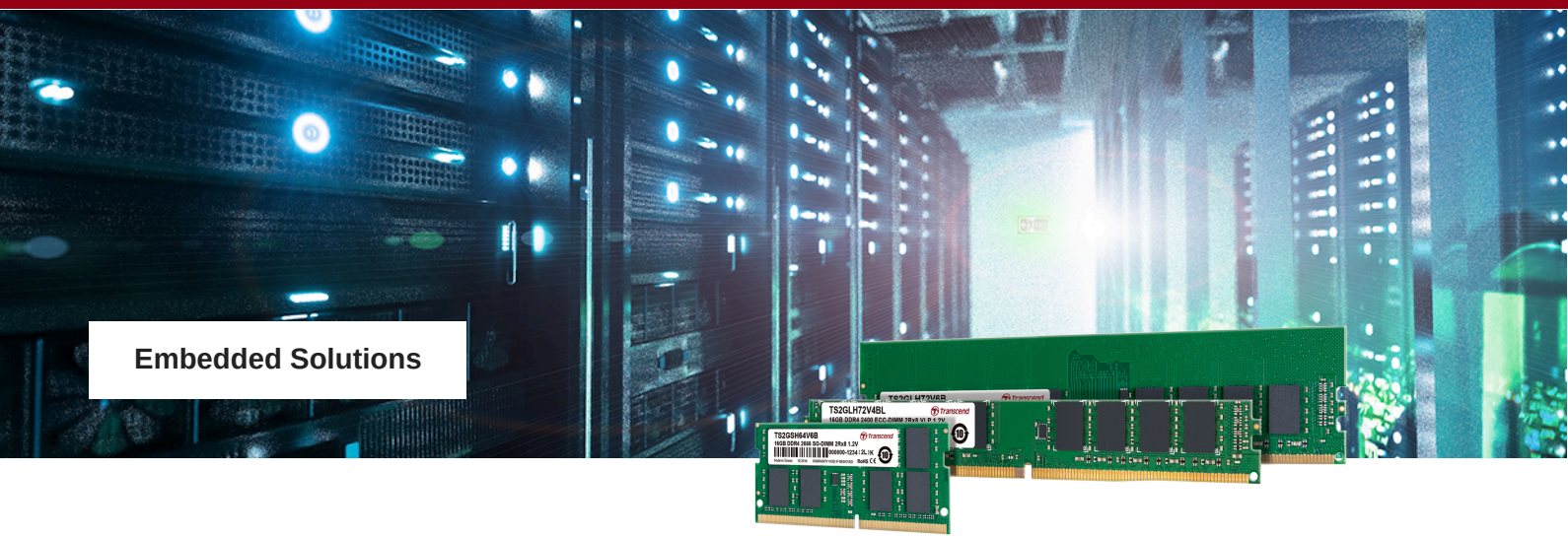


DRAM Modules

DDR4

Transcend's industrial DDR4 DRAM modules deliver reliable memory performance at speeds of up to 3,200 MT/s for embedded, automation, networking, workstation, and server applications. Built with high-quality DRAM components and tested to JEDEC standards, the lineup includes Unbuffered, ECC, Registered, SO-DIMM, and VLP options in standard, extended, and wide-temperature grades. Selected ECC and Registered DIMM models also feature anti-sulfur technology and 30 µ-inch gold fingers for enhanced durability in demanding industrial environments.

Features

- High-speed performance up to 3,200 MT/s
- JEDEC-compliant design for stable and reliable operation
- High-quality DRAM components from leading manufacturers
- Unbuffered, ECC, and Registered DIMM configurations
- VLP options for space-constrained systems
- Anti-sulfur technology and 30 µ-inch gold fingers on selected ECC and Registered DIMM models
- 100% tested for stability, compatibility, and performance
- Limited lifetime warranty

Advanced Technologies



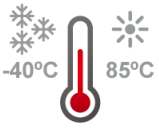
Anti-Sulfur Technology



Corner Bond



Conformal Coating



Wide Temperature



30 µ” Gold Finger

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DDR4

Module Type	Long-DIMM / SO-DIMM
Speed	3200 / 2666 / 2400 / 2133 MT/s
Voltage	1.2V / 1.1V
PCB Height	Long-DIMM: 1.23 inches SO-DIMM: 1.18 inches Long-DIMM (VLP): 0.74 inches
Capacity	2GB ~ 64GB
Operating Temperature	Standard Temp.: 0°C ~ 95°C / 0°C ~ 85°C Extended Temp.: -20°C ~ 95°C Wide Temp.: -40°C ~ 95°C / -40°C ~ 85°C Very Low Profile: -40°C ~ 95°C / 0°C ~ 95°C

Ordering Information

DDR4-3200 Unbuffered DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C ~ 95°C)				
4GB	(512Mx16)x4	1Rx16	TS512MLH64V2D TS512MLH64V2D4	TS512MSH64V2D
4GB	(512Mx8)x8	1Rx8	TS512MLH64V2H TS512MLH64V2H4	TS512MSH64V2H TS512MSH64V2H-G
8GB	(1Gx8)x8	1Rx8	TS1GLH64V2B TS1GLH64V2B-G TS1GLH64V2B1 TS1GLH64V2B5	TS1GSH64V2B TS1GSH64V2B-G TS1GSH64V2B1 TS1GSH64V2B4 TS1GSH64V2B5
8GB	(1Gx16)x4	1Rx16	TS1GLH64V2G3 TS1GLH64V2G4	TS1GSH64V2G4
8GB	(512Mx8)x16	2Rx8	-	TS1GSH64V2H-G
16GB	(1Gx8)x16	2Rx8	TS2GLH64V2B TS2GLH64V2B-G TS2GLH64V2B1 TS2GLH64V2B4	TS2GSH64V2B-G TS2GSH64V2B1 TS2GSH64V2B1-G TS2GSH64V2B4-G
16GB	(2Gx8)x8	1Rx8	TS2GLH64V2E TS2GLH64V2E1 TS2GLH64V2E4	TS2GSH64V2E TS2GSH64V2E1
32GB	(2Gx8)x16	2Rx8	TS4GLH64V2E TS4GLH64V2E-G TS4GLH64V2E1 TS4GLH64V2E4	TS4GSH64V2E TS4GSH64V2E-G TS4GSH64V2E1
Standard Temp. (0°C ~ 85°C)				
4GB	(512Mx8)x8	1Rx8	-	TS512MSH64V2H5
16GB	(2Gx8)x8	1Rx8	TS2GLH64V2E5	TS2GSH64V2E5

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Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Extended Temp. (-20°C ~ 95°C)				
4GB	(512Mx16)x4	1Rx16	TS512MLH64V2D2	TS512MSH64V2D2
4GB	(512Mx8)x8	1Rx8	TS512MLH64V2H2	TS512MSH64V2H2
8GB	(1Gx8)x8	1Rx8	TS1GLH64V2B2	TS1GSH64V2B2
8GB	(1Gx16)x4	1Rx16	TS1GLH64V2G2	TS1GSH64V2G2
16GB	(1Gx8)x16	2Rx8	TS2GLH64V2B2	TS2GSH64V2B2 TS2GSH64V2B2-G
16GB	(2Gx8)x8	1Rx8	TS2GLH64V2E2	TS2GSH64V2E2
32GB	(2Gx8)x16	2Rx8	TS4GLH64V2E2 TS4GLH64V2E2L	TS4GSH64V2E2
Wide Temp. (-40°C ~ 95°C)				
4GB	(512Mx16)x4	1Rx16	TS512MLH64V2D-I	TS512MSH64V2D-I TS512MSH64V2D2-I TS512MSH64V2D3-I TS512MSH64V2D4 TS512MSH64V2D4-I
4GB	(512Mx8)x9	1Rx8	TS512MLH72V2H2-I	-
4GB	(512Mx8)x8	1Rx8	-	TS512MSH64V2H2-I TS512MSH64V2H4-I
8GB	(1Gx8)x8	1Rx8	TS1GLH64V2B-I TS1GLH64V2B1-I TS1GLH64V2B2-I TS1GLH64V2B4-I	TS1GSH64V2B-I TS1GSH64V2B1-I TS1GSH64V2B2-I TS1GSH64V2B4-I
8GB	(1Gx8)x9	1Rx8	TS1GLH72V2B2-I	-
8GB	(1Gx16)x4	1Rx16	-	TS1GSH64V2G2-I
16GB	(1Gx8)x16	2Rx8	TS2GLH64V2B-I TS2GLH64V2B1-I TS2GLH64V2B4-I	TS2GSH64V2B1-I TS2GSH64V2B2-I
16GB	(2Gx8)x8	1Rx8	TS2GLH64V2E-I TS2GLH64V2E4-I	TS2GSH64V2E-I TS2GSH64V2E2-I TS2GSH64V2E4-I
32GB	(2Gx8)x16	2Rx8	TS4GLH64V2E-I TS4GLH64V2E4-I	TS4GSH64V2E-I TS4GSH64V2E1-I TS4GSH64V2E2-I
Very Low Profile (0°C ~ 95°C)				
8GB	(1Gx8)x8	1Rx8	TS1GLH64V2B1L-G TS1GLH64V2BL TS1GLH64V2BL-G	-
16GB	(1Gx8)x16	2Rx8	TS2GLH64V2B1L-G TS2GLH64V2BL TS2GLH64V2BL-G	-
32GB	(2Gx8)x16	2Rx8	TS4GLH64V2E2L-G	-

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DDR4-3200 ECC DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C ~ 95°C)				
4GB	(512Mx8)x9	1Rx8	-	TS512MSH72V2H
8GB	(1Gx8)x9	1Rx8	TS1GLH72V2B4 TS1GLH72V2B6	TS1GSH72V2B TS1GSH72V2B4
8GB	(512Mx8)x18	2Rx8	-	TS1GSH72V2H
16GB	(1Gx8)x18	2Rx8	TS2GLH72V2B TS2GLH72V2B4 TS2GLH72V2B6	TS2GSH72V2B TS2GSH72V2B4
16GB	(2Gx8)x9	1Rx8	TS2GLH72V2E TS2GLH72V2E4 TS2GLH72V2E6	TS2GSH72V2E TS2GSH72V2E6 TS2GSH72V2E7
32GB	(2Gx8)x18	2Rx8	TS4GLH72V2E TS4GLH72V2E4 TS4GLH72V2E6	TS4GSH72V2E TS4GSH72V2E4 TS4GSH72V2E6
Extended Temp. (-20°C ~ 95°C)				
4GB	(512Mx8)x9	1Rx8	TS512MLH72V2H2	TS512MSH72V2H2
8GB	(1Gx8)x9	1Rx8	TS1GLH72V2B2	TS1GSH72V2B2
8GB	(512Mx8)x18	2Rx8	TS1GLH72V2H2	TS1GSH72V2H2
16GB	(1Gx8)x18	2Rx8	TS2GLH72V2B2	TS2GSH72V2B2
16GB	(2Gx8)x9	1Rx8	TS2GLH72V2E2	TS2GSH72V2E2
32GB	(2Gx8)x18	2Rx8	TS4GLH72V2E2	TS4GSH72V2E2
Wide Temp. (-40°C ~ 95°C)				
4GB	(512Mx8)x9	1Rx8	-	TS512MSH72V2H2-I TS512MSH72V2H4-I
8GB	(1Gx8)x9	1Rx8	TS1GLH72V2B-I	TS1GSH72V2B-I TS1GSH72V2B2-I TS1GSH72V2B4-I TS1GSH72V2B6
8GB	(512Mx8)x18	2Rx8	TS1GLH72V2H2-I	TS1GSH72V2H2-I
16GB	(1Gx8)x18	2Rx8	TS2GLH72V2B-I TS2GLH72V2B2-I	TS2GSH72V2B-I TS2GSH72V2B2-I TS2GSH72V2B4-I
16GB	(2Gx8)x9	1Rx8	TS2GLH72V2E2-I	TS2GSH72V2E-I TS2GSH72V2E2-I TS2GSH72V2E4-I
32GB	(2Gx8)x18	2Rx8	TS4GLH72V2E-I TS4GLH72V2E2-I	TS4GSH72V2E-I TS4GSH72V2E2-I TS4GSH72V2E4-I
Very Low Profile (0°C ~ 95°C)				
8GB	(1Gx8)x9	1Rx8	TS1GLH72V2BL	-
16GB	(1Gx8)x18	2Rx8	TS2GLH72V2B4L TS2GLH72V2BL	-

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DDR4-3200 Registered DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM
Standard Temp. (0°C ~ 95°C)			
8GB	(1Gx8)x9	1Rx8	TS1GHR72V2B TS1GHR72V2B4
16GB	(1Gx8)x18	2Rx8	TS2GHR72V2B
16GB	(2Gx8)x9	1Rx8	TS2GHR72V2E TS2GHR72V2E4
32GB	(2Gx4)x36	2Rx4	TS4GHR72V2C-SAM
32GB	(2Gx8)x18	2Rx8	TS4GHR72V2E
64GB	(4Gx4)x36	2Rx4	TS8GHR72V2F2-SAM
Standard Temp. (0°C ~ 85°C)			
16GB	(1Gx8)x18	2Rx8	TS2GHR72V2B4 TS2GHR72V2B6
32GB	(2Gx8)x18	2Rx8	TS4GHR72V2E1
Extended Temp. (-20°C ~ 95°C)			
8GB	(1Gx8)x9	1Rx8	TS1GHR72V2B2 TS1GHR72V2B2L
16GB	(1Gx8)x18	2Rx8	TS2GHR72V2B2
16GB	(2Gx8)x9	1Rx8	TS2GHR72V2E2
32GB	(2Gx8)x18	2Rx8	TS4GHR72V2E2
Wide Temp. (-40°C ~ 85°C)			
32GB	(2Gx8)x18	2Rx8	TS4GHR72V2E1-I
Wide Temp. (-40°C ~ 95°C)			
8GB	(1Gx8)x9	1Rx8	TS1GHR72V2B2-I
16GB	(1Gx8)x18	2Rx8	TS2GHR72V2B-I TS2GHR72V2B2-I
16GB	(2Gx8)x9	1Rx8	TS2GHR72V2E2-I
32GB	(2Gx8)x18	2Rx8	TS4GHR72V2E-I TS4GHR72V2E2-I TS4GHR72V2E4-I
Very Low Profile (-40°C ~ 95°C)			
16GB	(2Gx8)x9	1Rx8	TS2GHR72V2E1L
Very Low Profile (0°C ~ 95°C)			
8GB	(1Gx8)x9	1Rx8	TS1GHR72V2BL
16GB	(1Gx8)x18	2Rx8	TS2GHR72V2BL
16GB	(2Gx8)x9	1Rx8	TS2GHR72V2E7L
32GB	(2Gx8)x18	2Rx8	TS4GHR72V2EL

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DDR4-2666 Unbuffered DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C ~ 95°C)				
2GB	(256Mx16)x4	1Rx16	TS256MLH64V6X	TS256MSH64V6X
4GB	(512Mx16)x4	1Rx16	TS512MLH64V6D	TS512MSH64V6D TS512MSH64V6D3
4GB	(512Mx8)x8	1Rx8	TS512MLH64V6H TS512MLH64V6H-G TS512MLH64V6H3	TS512MSH64V6H
8GB	(1Gx8)x8	1Rx8	TS1GLH64V6B TS1GLH64V6B-G	TS1GSH64V6B TS1GSH64V6B-I TS1GSH64V6B4
8GB	(512Mx8)x16	2Rx8	-	TS1GSH64V6H
16GB	(1Gx8)x16	2Rx8	TS2GLH64V6B TS2GLH64V6B-G	TS2GSH64V6B
32GB	(2Gx8)x16	2Rx8	TS4GLH64V6E	TS4GSH64V6E
Wide Temp. (-40°C ~ 95°C)				
4GB	(512Mx16)x4	1Rx16	-	TS512MSH64V6D-I
4GB	(512Mx8)x8	1Rx8	-	TS512MSH64V6H-I
16GB	(1Gx8)x16	2Rx8	TS2GLH64V6B-I	TS2GSH64V6B-I
32GB	(2Gx8)x16	2Rx8	TS4GLH64V6E-I	TS4GSH64V6E-I
Very Low Profile (0°C ~ 95°C)				
4GB	(512Mx8)x8	1Rx8	TS512MLH64V6HL	-
8GB	(1Gx8)x8	1Rx8	TS1GLH64V6BL	-
16GB	(1Gx8)x16	2Rx8	TS2GLH64V6BL	-
32GB	(2Gx8)x16	2Rx8	TS4GLH64V6EL-G	-

DDR4-2666 ECC DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C ~ 95°C)				
4GB	(512Mx8)x9	1Rx8	TS512MLH72V6H	TS512MSH72V6H
8GB	(1Gx8)x9	1Rx8	TS1GLH72V6B	TS1GSH72V6B
16GB	(1Gx8)x18	2Rx8	TS2GLH72V6B	TS2GSH72V6B
32GB	(2Gx8)x18	2Rx8	TS4GLH72V6E	-
Wide Temp. (-40°C ~ 95°C)				
4GB	(512Mx8)x9	1Rx8	TS512MLH72V6H-I	TS512MSH72V6H-I
8GB	(1Gx8)x9	1Rx8	TS1GLH72V6B-I	TS1GSH72V6B-I
16GB	(1Gx8)x18	2Rx8	TS2GLH72V6B-I	TS2GSH72V6B-I
32GB	(2Gx8)x18	2Rx8	TS4GLH72V6E-I	TS4GSH72V6E TS4GSH72V6E-I

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Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Very Low Profile (0°C ~ 95°C)				
8GB	(1Gx8)x9	1Rx8	TS1GLH72V6BL	-
16GB	(1Gx8)x18	2Rx8	TS2GLH72V6BL	-

DDR4-2666 Registered DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM
Standard Temp. (0°C ~ 95°C)			
4GB	(512Mx8)x9	1Rx8	TS512MHR72V6H
8GB	(1Gx8)x9	1Rx8	TS1GHR72V6B
8GB	(512Mx8)x18	2Rx8	TS1GHR72V6H
16GB	(1Gx8)x18	2Rx8	TS2GHR72V6B
Wide Temp. (-40°C ~ 95°C)			
32GB	(2Gx8)x18	2Rx8	TS4GHR72V6E-I
Very Low Profile (0°C ~ 95°C)			
16GB	(1Gx8)x18	2Rx8	TS2GHR72V6BL

DDR4-2400 Unbuffered DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C ~ 95°C)				
2GB	(256Mx16)x4	1Rx16	-	TS256MSH64V4X
4GB	(512Mx8)x8	1Rx8	TS512MLH64V4H	TS512MSH64V4H
8GB	(1Gx8)x8	1Rx8	TS1GLH64V4B	TS1GSH64V4B
8GB	(512Mx8)x16	2Rx8	TS1GLH64V4H	TS1GSH64V4H
16GB	(1Gx8)x16	2Rx8	TS2GLH64V4B	TS2GSH64V4B TS2GSH64V4B4
Wide Temp. (-40°C ~ 95°C)				
4GB	(512Mx8)x8	1Rx8	-	TS512MSH64V4H-I
8GB	(1Gx8)x8	1Rx8	-	TS1GSH64V4B-I
16GB	(1Gx8)x16	2Rx8	-	TS2GSH64V4B-I TS2GSH64V4B1-I TS2GSH64V4B4-I

DDR4-2400 ECC DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C ~ 95°C)				
4GB	(512Mx8)x9	1Rx8	TS512MLH72V4H	TS512MSH72V4H TS512MSH72V4H4
8GB	(1Gx8)x9	1Rx8	TS1GLH72V4B	TS1GSH72V4B
16GB	(1Gx8)x18	2Rx8	TS2GLH72V4B	TS2GSH72V4B

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Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Wide Temp. (-40°C ~ 95°C)				
8GB	(1Gx8)x9	1Rx8	-	TS1GSH72V4B-I
16GB	(1Gx8)x18	2Rx8	-	TS2GSH72V4B-I TS2GSH72V4B4-I

DDR4-2400 Registered DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM
Standard Temp. (0°C ~ 95°C)			
4GB	(512Mx8)x9	1Rx8	TS512MHR72V4H
8GB	(1Gx8)x9	1Rx8	TS1GHR72V4B
16GB	(1Gx8)x18	2Rx8	TS2GHR72V4B
Very Low Profile (0°C ~ 95°C)			
8GB	(512Mx8)x18	2Rx8	TS1GHR72V4HL
16GB	(2Gx4)x18	1Rx4	TS2GHR72V4CL

DDR4-2133 Unbuffered DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C ~ 95°C)				
4GB	(512Mx8)x8	1Rx8	TS512MLH64V1H	TS512MSH64V1H
8GB	(512Mx8)x16	2Rx8	TS1GLH64V1H	TS1GSH64V1H
16GB	(1Gx8)x16	2Rx8	TS2GLH64V1B	-
Wide Temp. (-40°C ~ 95°C)				
4GB	(512Mx8)x8	1Rx8	-	TS512MSH64V1H-I
8GB	(512Mx8)x16	2Rx8	-	TS1GSH64V1H-I
16GB	(1Gx8)x16	2Rx8	-	TS2GSH64V1B TS2GSH64V1B-I
Very Low Profile (0°C ~ 95°C)				
8GB	(512Mx8)x16	2Rx8	TS1GLH64V1HL	-

DDR4-2133 ECC DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C ~ 95°C)				
4GB	(512Mx8)x9	1Rx8	TS512MLH72V1H	TS512MSH72V1H
8GB	(512Mx8)x18	2Rx8	TS1GLH72V1H	TS1GSH72V1H
16GB	(1Gx8)x18	2Rx8	TS2GLH72V1B	TS2GSH72V1B

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DDR4-2133 Registered DIMM

Capacity	Component Composition	Rank x Org.	Long-DIMM
Standard Temp. (0°C ~ 95°C)			
8GB	(512Mx8)x18	2Rx8	TS1GHR72V1H
16GB	(1Gx8)x18	2Rx8	TS2GHR72V1B
Very Low Profile (0°C ~ 95°C)			
8GB	(512Mx8)x18	2Rx8	TS1GHR72V1HL

Product specifications are subject to change without notice. Pictures shown may differ from actual products. Due to the complexity and variety of industrial applications, Transcend cannot guarantee 100% compatibility with all platforms and under all scenarios. For special applications and environments, it is strongly suggested that you contact Transcend beforehand for clarification.

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