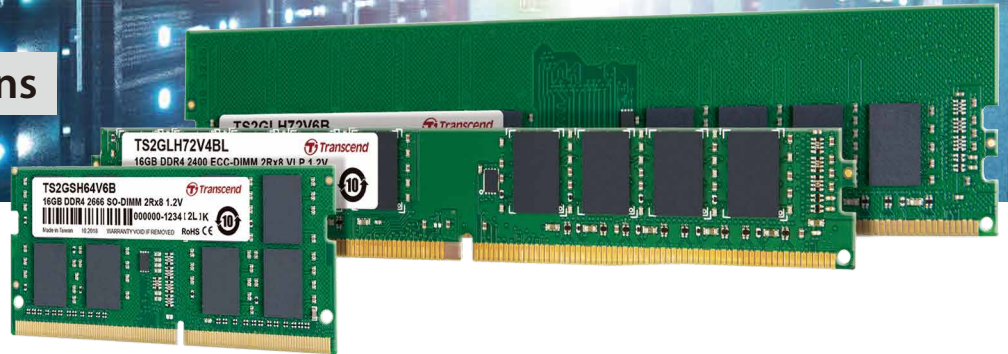


## Embedded Solutions

# DRAM Modules DDR4



Transcend's DDR4 DRAM modules operate at a nominal voltage of just 1.2V, offering higher energy efficiency and exceptional clock speeds to cater to the demands of the embedded industry. The modules are available in multiple form factors and technologies, such as ECC and wide-temperature support. All components are of the highest quality, having been sourced directly from the world's first-tier supplier of DRAM chips and stringently tested for unparalleled compatibility, reliability, and performance.

## Features

- JEDEC standard 1.2V  $\pm$  0.06V power supply
- High energy efficiency
- 8 bit pre-fetch
- Burst Length: 4, 8
- 16 Banks (4 Bank Groups)
- Support DBI mode
- Support Command/Address parity detection
- Support Data Cyclic Redundancy Check (CRC) for improved data reliability
- On-die termination with ODT pin
- Serial presence detect with EEPROM
- 100% tested for stability, compatibility and performance

## Advanced Technologies



Anti-Sulfur  
Technology



Corner Bond &  
Underfill



Conformal  
Coating



Wide  
Temperature



30µm  
Gold Finger

# DDR4 Unbuffered DIMMs



|                           |                                                                                                         |              |
|---------------------------|---------------------------------------------------------------------------------------------------------|--------------|
| Module Type               | DDR4 Long-DIMM                                                                                          | DDR4 SO-DIMM |
| Standard                  | JEDEC®                                                                                                  |              |
| Speed                     | 3200/2666/2400/2133 MT/s                                                                                |              |
| Capacity                  | 2GB~32GB                                                                                                |              |
| Voltage                   | 1.2V                                                                                                    |              |
| Pin Count                 | 288 pin                                                                                                 | 260 pin      |
| PCB Height                | Standard: 1.23 inches<br>Very Low Profile: 0.74 inches                                                  | 1.18 inches  |
| PCB Gold Finger Thickness | 30μ" (Wide Temp.)                                                                                       |              |
| Anti-Sulfuration          | Default (Wide Temp.)                                                                                    |              |
| Operating Temperature     | Extended Temperature: -20°C~ 95°C<br>Standard Temperature: 0°C ~ 95°C<br>Wide Temperature: -40°C ~ 95°C |              |

## DDR4-3200 Unbuffered DIMM

|                                                      | Capacity  | Component Composition | Rank x Org.    | Long-DIMM      | SO-DIMM          |
|------------------------------------------------------|-----------|-----------------------|----------------|----------------|------------------|
| Extended Temp.<br>(-20°C~ 95°C)                      | 4GB       | (512Mx16)x4           | 1Rx16          | TS512MLH64V2D2 | TS512MSH64V2D2   |
|                                                      |           | (512Mx8)x8            | 1Rx8           | TS512MLH64V2H2 | TS512MSH64V2H2   |
|                                                      | 8GB       | (1Gx8)x8              | 1Rx8           | TS1GLH64V2B2   | TS1GSH64V2B2     |
|                                                      |           | (1Gx16)x4             | 1Rx16          | TS1GLH64V2G2   | TS1GSH64V2G2     |
|                                                      | 16GB      | (1Gx8)x16             | 2Rx8           | TS2GLH64V2B2   | TS2GSH64V2B2     |
| 32GB                                                 | (2Gx8)x8  | 1Rx8                  | TS2GLH64V2E2   | TS2GSH64V2E2   |                  |
| 32GB                                                 | (2Gx8)x16 | 2Rx8                  | TS4GLH64V2E2   | TS4GSH64V2E2   |                  |
| Standard Temp.<br>(0°C~ 95°C)                        | 4GB       | (512Mx16)x4           | 1Rx16          | TS512MLH64V2D  | TS512MSH64V2D    |
|                                                      |           | (512Mx8)x8            | 1Rx8           | TS512MLH64V2H  | TS512MSH64V2H    |
|                                                      | 8GB       | (1Gx8)x8              | 1Rx8           | TS1GLH64V2B    | TS1GSH64V2B      |
|                                                      |           | (1Gx8)x8              | 1Rx8           | TS1GLH64V2B4   | TS1GSH64V2B4     |
|                                                      |           | (1Gx8)x8              | 1Rx8           | TS1GLH64V2B1   | TS1GSH64V2B1     |
|                                                      | 16GB      | (1Gx16)x4             | 1Rx16          | TS1GLH64V2G    | TS1GSH64V2G      |
|                                                      |           | (1Gx8)x16             | 2Rx8           | TS2GLH64V2B    | TS2GSH64V2B      |
|                                                      |           | (1Gx8)x16             | 2Rx8           | TS2GLH64V2B4   | TS2GSH64V2B4     |
|                                                      |           | (1Gx8)x16             | 2Rx8           | TS2GLH64V2B1   | TS2GSH64V2B1     |
|                                                      |           | (2Gx8)x8              | 1Rx8           | TS2GLH64V2E    | TS2GSH64V2E      |
|                                                      | 32GB      | (2Gx8)x8              | 1Rx8           | TS2GLH64V2E4   | TS2GSH64V2E4     |
|                                                      |           | (2Gx8)x8              | 1Rx8           | TS2GLH64V2E1   | TS2GSH64V2E1     |
|                                                      |           | (2Gx8)x16             | 2Rx8           | TS4GLH64V2E    | TS4GSH64V2E      |
| (2Gx8)x16                                            |           | 2Rx8                  | TS4GLH64V2E4   | TS4GSH64V2E4   |                  |
| (2Gx8)x16                                            |           | 2Rx8                  | TS4GLH64V2E1   | TS4GSH64V2E1   |                  |
| Wide Temp.<br>(-40°C~ 95°C)                          | 4GB       | (512Mx16)x4           | 1Rx16          | -              | TS512MSH64V2D2-I |
|                                                      |           | (512Mx8)x8            | 1Rx8           | -              | TS512MSH64V2H2-I |
|                                                      | 8GB       | (1Gx8)x8              | 1Rx8           | -              | TS1GSH64V2B2-I   |
|                                                      |           | (1Gx16)x4             | 1Rx16          | -              | TS1GSH64V2G2-I   |
|                                                      | 16GB      | (1Gx8)x16             | 2Rx8           | -              | TS2GSH64V2B2-I   |
| (2Gx8)x8                                             | 1Rx8      | -                     | TS2GSH64V2E2-I |                |                  |
| (2Gx8)x16                                            | 2Rx8      | -                     | TS4GSH64V2E2-I |                |                  |
| Very Low Profile<br>(0°C~ 95°C)                      | 4GB       | (512Mx8)x8            | 1Rx8           | TS512MLH64V2HL | -                |
|                                                      |           | (1Gx8)x8              | 1Rx8           | TS1GLH64V2BL   | -                |
|                                                      | 8GB       | (1Gx8)x8              | 1Rx8           | TS1GLH64V2BL-G | -                |
|                                                      |           | (1Gx8)x16             | 2Rx8           | TS2GLH64V2BL   | -                |
|                                                      | 16GB      | (1Gx8)x16             | 2Rx8           | TS2GLH64V2BL-G | -                |
| 32GB                                                 | (2Gx8)x16 | 2Rx8                  | TS4GLH64V2E3L  | -              |                  |
| Very Low Profile +<br>Extended Temp.<br>(-20°C~95°C) | 32GB      | (2Gx8)x16             | 2Rx8           | TS4GLH64V2E2L  | -                |

## DDR4-2666 Unbuffered DIMM

|                                 | Capacity  | Component Composition | Rank x Org.  | Long-DIMM       | SO-DIMM         |
|---------------------------------|-----------|-----------------------|--------------|-----------------|-----------------|
| Standard Temp.<br>(0°C~ 95°C)   | 2GB       | (256Mx16)x4           | 1Rx16        | TS256MLH64V6X   | TS256MSH64V6X   |
|                                 |           | (512Mx16)x4           | 1Rx16        | TS512MLH64V6D   | TS512MSH64V6D   |
|                                 | 4GB       | (512Mx8)x8            | 1Rx8         | TS512MLH64V6H   | TS512MSH64V6H   |
|                                 |           | (512Mx8)x8            | 1Rx8         | TS512MLH64V6H3  | -               |
|                                 |           | (512Mx8)x8            | 1Rx8         | TS512MLH64V6H-G | -               |
|                                 |           | (512Mx8)x8            | 1Rx8         | TS2666HLH-4G    | TS2666HSH-4G    |
|                                 |           | (512Mx16)x4           | 1Rx16        | -               | TS512MSH64V6D3  |
|                                 |           | (512Mx8)x16           | 2Rx8         | -               | TS1GSH64V6H     |
|                                 | 8GB       | (1Gx8)x8              | 1Rx8         | TS1GLH64V6B     | TS1GSH64V6B     |
|                                 |           | (1Gx8)x8              | 1Rx8         | TS1GLH64V6B3    | TS1GSH64V6B3    |
|                                 |           | (1Gx8)x8              | 1Rx8         | TS1GLH64V6B-G   | -               |
|                                 |           | (1Gx8)x8              | 1Rx8         | TS2666HLB-8G    | TS2666HSB-8G    |
|                                 |           | (1Gx8)x16             | 2Rx8         | TS2GLH64V6B     | TS2GSH64V6B     |
|                                 | 16GB      | (1Gx8)x16             | 2Rx8         | TS2GLH64V6B-G   | -               |
|                                 |           | (1Gx8)x16             | 2Rx8         | TS2GLH64V6B3    | TS2GSH64V6B3    |
|                                 |           | (1Gx8)x16             | 2Rx8         | TS2666HLB-16G   | TS2666HSB-16G   |
| (1Gx8)x16                       |           | 2Rx8                  | TS4GLH64V6E  | TS4GSH64V6E     |                 |
| 32GB                            | (2Gx8)x16 | 2Rx8                  | TS4GLH64V6E  | TS4GSH64V6E     |                 |
|                                 | (2Gx8)x16 | 2Rx8                  | -            | TS4GSH64V6E3    |                 |
| Wide Temp.<br>(-40°C~ 95°C)     | 4GB       | (512Mx16)x4           | 1Rx16        | -               | TS512MSH64V6D-I |
|                                 |           | (512Mx8)x8            | 1Rx8         | -               | TS512MSH64V6H-I |
|                                 | 8GB       | (1Gx8)x8              | 1Rx8         | -               | TS1GSH64V6B-I   |
|                                 | 16GB      | (1Gx8)x16             | 2Rx8         | TS2GLH64V6B-I   | TS2GSH64V6B-I   |
| Very Low Profile<br>(0°C~ 95°C) | 32GB      | (2Gx8)x16             | 2Rx8         | TS4GLH64V6E-I   | TS4GSH64V6E-I   |
|                                 | 2GB       | (256Mx16)x4           | 1Rx16        | TS256MLH64V6XL  | -               |
|                                 | 4GB       | (512Mx8)x8            | 1Rx8         | TS512MLH64V6HL  | -               |
|                                 | 8GB       | (1Gx8)x8              | 1Rx8         | TS1GLH64V6BL    | -               |
| 16GB                            | (1Gx8)x16 | 2Rx8                  | TS2GLH64V6BL | -               |                 |

## DDR4-2400 Unbuffered DIMM

|                                 | Capacity | Component Composition | Rank x Org. | Long-DIMM      | SO-DIMM         |
|---------------------------------|----------|-----------------------|-------------|----------------|-----------------|
| Standard Temp.<br>(0°C~ 95°C)   | 2GB      | (256Mx16)x4           | 1Rx16       | -              | TS256MSH64V4X   |
|                                 | 4GB      | (512Mx8)x8            | 1Rx8        | TS512MLH64V4H  | TS512MSH64V4H   |
|                                 | 8GB      | (512Mx8)x16           | 2Rx8        | TS1GLH64V4H    | TS1GSH64V4H     |
|                                 |          | (1Gx8)x8              | 1Rx8        | TS1GLH64V4B    | TS1GSH64V4B     |
|                                 | 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V4B    | TS2GSH64V4B     |
| Wide Temp.<br>(-40°C~ 95°C)     | 4GB      | (512Mx8)x8            | 1Rx8        | -              | TS512MSH64V4H-I |
|                                 | 8GB      | (1Gx8)x8              | 1Rx8        | -              | TS1GSH64V4B-I   |
|                                 | 16GB     | (1Gx8)x16             | 2Rx8        | -              | TS2GSH64V4B-I   |
| Very Low Profile<br>(0°C~ 95°C) | 4GB      | (512Mx8)x8            | 1Rx8        | TS512MLH64V4HL | -               |

## DDR4-2133 Unbuffered DIMM

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

# DDR4 ECC DIMMs



|                           |                                                                                                         |                  |
|---------------------------|---------------------------------------------------------------------------------------------------------|------------------|
| Module Type               | DDR4 ECC Long-DIMM                                                                                      | DDR4 ECC SO-DIMM |
| Standard                  | JEDEC®                                                                                                  |                  |
| Speed                     | 3200/2666/2400/2133 MT/s                                                                                |                  |
| Capacity                  | 4GB~32GB                                                                                                |                  |
| Voltage                   | 1.2V                                                                                                    |                  |
| Pin Count                 | 288 pin                                                                                                 | 260 pin          |
| PCB Height                | Standard: 1.23 inches<br>Very Low Profile: 0.74 inches                                                  | 1.18 inches      |
| PCB Gold Finger Thickness | 30μ"                                                                                                    |                  |
| Anti-Sulfuration          | Default                                                                                                 |                  |
| Operating Temperature     | Extended Temperature: -20°C~ 95°C<br>Standard Temperature: 0°C ~ 95°C<br>Wide Temperature: -40°C ~ 95°C |                  |

## DDR4-3200 ECC DIMM

|                                 | Capacity  | Component Composition | Rank x Org.    | Long-DIMM        | SO-DIMM          |
|---------------------------------|-----------|-----------------------|----------------|------------------|------------------|
| Extended Temp.<br>(-20°C~ 95°C) | 4GB       | (512Mx8)x9            | 1Rx8           | TS512MLH72V2H2   | TS512MSH72V2H2   |
|                                 | 8GB       | (512Mx8)x18           | 2Rx8           | TS1GLH72V2H2     | TS1GSH72V2H2     |
|                                 |           | (1Gx8)x9              | 1Rx8           | TS1GLH72V2B2     | TS1GSH72V2B2     |
|                                 | 16GB      | (1Gx8)x18             | 2Rx8           | TS2GLH72V2B2     | TS2GSH72V2B2     |
|                                 |           | (2Gx8)x9              | 1Rx8           | TS2GLH72V2E2     | TS2GSH72V2E2     |
| 32GB                            | (2Gx8)x18 | 2Rx8                  | TS4GLH72V2E2   | TS4GSH72V2E2     |                  |
| Standard Temp.<br>(0°C~ 95°C)   | 4GB       | (512Mx8)x9            | 1Rx8           | -                | TS512MSH72V2H    |
|                                 |           | (512Mx8)x18           | 2Rx8           | -                | TS1GSH72V2H      |
|                                 | 8GB       | (1Gx8)x9              | 1Rx8           | TS1GLH72V2B      | TS1GSH72V2B      |
|                                 |           | (1Gx8)x9              | 1Rx8           | TS1GLH72V2B4     | TS1GSH72V2B4     |
|                                 | 16GB      | (1Gx8)x18             | 2Rx8           | TS2GLH72V2B      | TS2GSH72V2B      |
|                                 |           | (2Gx8)x9              | 1Rx8           | TS2GLH72V2E      | TS2GSH72V2E      |
|                                 | 32GB      | (2Gx8)x9              | 1Rx8           | TS2GLH72V2E4     | TS2GSH72V2E4     |
|                                 |           | (2Gx8)x18             | 2Rx8           | TS4GLH72V2E      | TS4GSH72V2E      |
|                                 |           | (2Gx8)x18             | 2Rx8           | TS4GLH72V2E4     | TS4GSH72V2E4     |
|                                 |           |                       |                |                  |                  |
| Wide Temp.<br>(-40°C~ 95°C)     | 4GB       | (512Mx8)x9            | 1Rx8           | TS512MLH72V2H2-I | TS512MSH72V2H2-I |
|                                 | 8GB       | (512Mx8)x18           | 2Rx8           | TS1GLH72V2H2-I   | TS1GSH72V2H2-I   |
|                                 |           | (1Gx8)x9              | 1Rx8           | TS1GLH72V2B2-I   | TS1GSH72V2B2-I   |
|                                 | 16GB      | (1Gx8)x18             | 2Rx8           | TS2GLH72V2B2-I   | TS2GSH72V2B2-I   |
|                                 |           | (2Gx8)x9              | 1Rx8           | TS2GLH72V2E2-I   | TS2GSH72V2E2-I   |
| 32GB                            | (2Gx8)x18 | 2Rx8                  | TS4GLH72V2E2-I | TS4GSH72V2E2-I   |                  |
| Very Low Profile<br>(0°C~ 95°C) | 8GB       | (1Gx8)x9              | 1Rx8           | TS1GLH72V2BL     | -                |
|                                 | 16GB      | (1Gx8)x18             | 2Rx8           | TS2GLH72V2BL     | -                |
|                                 |           | (1Gx8)x18             | 2Rx8           | TS2GLH72V2B3L    | -                |
|                                 | 32GB      | (2Gx8)x18             | 2Rx8           | TS4GLH72V2E3L    | -                |

## DDR4-2666 ECC DIMM

|                                        | Capacity | Component Composition | Rank x Org. | Long-DIMM       | SO-DIMM         |
|----------------------------------------|----------|-----------------------|-------------|-----------------|-----------------|
| <b>Standard Temp.</b><br>(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     | TS4GSH72V6E     |
| <b>Wide Temp.</b><br>(-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-I   |
| <b>Very Low Profile</b><br>(0°C~ 95°C) | 8GB      | (1Gx8)x9              | 1Rx8        | TS1GLH72V6BL    | -               |
|                                        | 16GB     | (1Gx8)x18             | 2Rx8        | TS2GLH72V6BL    | -               |

## DDR4-2400 ECC DIMM

|                                      | Capacity | Component Composition | Rank x Org. | Long-DIMM     | SO-DIMM       |
|--------------------------------------|----------|-----------------------|-------------|---------------|---------------|
| <b>Standard Temp.</b><br>(0°C~ 95°C) | 4GB      | (512Mx8)x9            | 1Rx8        | TS512MLH72V4H | TS512MSH72V4H |
|                                      | 8GB      | (1Gx8)x9              | 1Rx8        | TS1GLH72V4B   | TS1GSH72V4B   |
|                                      | 16GB     | (1Gx8)x18             | 2Rx8        | TS2GLH72V4B   | TS2GSH72V4B   |
| <b>Wide Temp.</b><br>(-40°C~ 95°C)   | 8GB      | (1Gx8)x9              | 1Rx8        | -             | TS1GSH72V4B-I |
|                                      | 16GB     | (1Gx8)x18             | 2Rx8        | -             | TS2GSH72V4B-I |

## DDR4-2133 ECC DIMM

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

# DDR4 Registered DIMMs



|                           |                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------|
| Module Type               | DDR4 R-DIMM                                                                                             |
| Standard                  | JEDEC®                                                                                                  |
| Speed                     | 3200/2666/2400/2133 MT/s                                                                                |
| Capacity                  | 4GB~64GB                                                                                                |
| Voltage                   | 1.2V                                                                                                    |
| Pin Count                 | 288 pin                                                                                                 |
| PCB Height                | Standard: 1.23 inches<br>Very Low Profile: 0.74 inches                                                  |
| PCB Gold Finger Thickness | 30μ"                                                                                                    |
| Anti-Sulfuration          | Default                                                                                                 |
| Operating Temperature     | Extended Temperature: -20°C~ 95°C<br>Standard Temperature: 0°C ~ 95°C<br>Wide Temperature: -40°C ~ 95°C |

## DDR4-3200 Registered DIMM

|                                 | Capacity | Component Composition | Rank x Org. | Long-DIMM        |
|---------------------------------|----------|-----------------------|-------------|------------------|
| Extended Temp.<br>(-20°C~ 95°C) | 8GB      | (1Gx8)x9              | 1Rx8        | TS1GHR72V2B2     |
|                                 | 16GB     | (1Gx8)x18             | 2Rx8        | TS2GHR72V2B2     |
|                                 |          | (2Gx8)x9              | 1Rx8        | TS2GHR72V2E2     |
| Standard Temp.<br>(0°C~ 85°C)   | 16GB     | (1Gx8)x18             | 2Rx8        | TS2GHR72V2B4     |
|                                 |          | (2Gx8)x9              | 1Rx8        | TS2GHR72V2E4     |
|                                 | 32GB     | (2Gx8)x18             | 2Rx8        | TS4GHR72V2E4     |
| Standard Temp.<br>(0°C~ 95°C)   | 8GB      | (1Gx8)x9              | 1Rx8        | TS1GHR72V2B      |
|                                 |          | (1Gx8)x9              | 1Rx8        | TS1GHR72V2B4     |
|                                 | 16GB     | (1Gx8)x18             | 2Rx8        | TS2GHR72V2B      |
|                                 |          | (2Gx8)x9              | 1Rx8        | TS2GHR72V2E      |
|                                 | 32GB     | (2Gx8)x18             | 2Rx8        | TS4GHR72V2E      |
| Wide Temp.<br>(-40°C~ 95°C)     | 16GB     | (2Gx4)x36             | 2Rx4        | TS4GHR72V2C-SAM  |
|                                 |          | (4Gx4)x36             | 2Rx4        | TS8GHR72V2F2-SAM |
|                                 | 8GB      | (1Gx8)x9              | 1Rx8        | TS1GHR72V2B2-I   |
| Very Low Profile<br>(0°C~ 95°C) | 16GB     | (1Gx8)x18             | 2Rx8        | TS2GHR72V2B2-I   |
|                                 |          | (2Gx8)x9              | 1Rx8        | TS2GHR72V2E2-I   |
|                                 | 32GB     | (2Gx8)x18             | 2Rx8        | TS4GHR72V2E2-I   |
| Very Low Profile<br>(0°C~ 95°C) | 8GB      | (1Gx8)x9              | 1Rx8        | TS1GHR72V2BL     |
|                                 |          | (1Gx8)x18             | 2Rx8        | TS2GHR72V2BL     |
|                                 | 16GB     | (2Gx8)x9              | 1Rx8        | TS2GHR72V2EL     |
|                                 | 32GB     | (2Gx8)x18             | 2Rx8        | TS4GHR72V2EL     |

## DDR4-2666 Registered DIMM

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

## DDR4-2400 Registered DIMM

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

## DDR4-2133 Registered DIMM

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



Please feel free to contact us with any special requests you might have.  
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