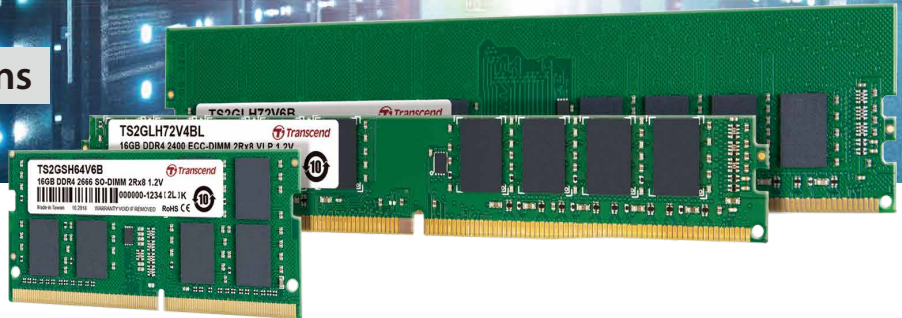




[www.transcend-info.com](http://www.transcend-info.com)

## 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



30  $\mu$ m  
Gold Finger

# DDR4 Unbuffered DIMMs

| Module Type           | DDR4                                                                              |                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                       | Long-DIMM                                                                         | SO-DIMM                                                                             |
| Product Image         |  |  |
| Standard              | JEDEC                                                                             |                                                                                     |
| Speed                 | 3200/2666/2400/2133 Mbps                                                          |                                                                                     |
| Capacity              | 2GB~32GB                                                                          |                                                                                     |
| Voltage               | 1.2V                                                                              |                                                                                     |
| Pin Count             | Long-DIMM: 288 pin                                                                | SO-DIMM: 260 pin                                                                    |
| PCB Height            | Standard: 1.23 inches<br>Very Low Profile: 0.74 inches                            | 1.18 inches                                                                         |
| Operating Temperature | Standard Temperature: 0°C~ 95°C<br>Wide Temperature: -40°C~ 95°C                  |                                                                                     |

## Ordering Information

### DDR4-3200 Long-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 4GB      | (512Mx16)x4           | 1Rx16       | -               | TS512MLH64V2D-I          | -                      |
| 4GB      | (512Mx16)x4           | 1Rx16       | TS512MLH64V2D3  | -                        | -                      |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GLH64V2B     | TS1GLH64V2B-I            | -                      |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GLH64V2B-G   | -                        | -                      |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GLH64V2B3    | -                        | -                      |
| 8GB      | (1Gx16)x4             | 1Rx16       | TS1GLH64V2G     | TS1GLH64V2G-I            | -                      |
| 8GB      | (1Gx16)x4             | 1Rx16       | TS1GLH64V2G3    | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V2B     | TS2GLH64V2B-I            | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V2B-G   | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V2B3    | -                        | -                      |
| 16GB     | (2Gx8)x8              | 1Rx8        | TS2GLH64V2E     | TS2GLH64V2E-I            | -                      |
| 16GB     | (2Gx8)x8              | 1Rx8        | TS2GLH64V2E3    | -                        | -                      |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GLH64V2E     | TS4GLH64V2E-I            | -                      |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GLH64V2E-G   | -                        | -                      |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GLH64V2E3    | -                        | TS4GLH64V2E3L          |


[www.transcend-info.com](http://www.transcend-info.com)

### DDR4-3200 SO-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 4GB      | (512Mx16)x4           | 1Rx16       | TS512MSH64V2D3  | -                        | -                      |
| 8GB      | (1Gx8)x8              | 1Rx8        | -               | TS1GSH64V2B2-I           | -                      |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GSH64V2B-G   | -                        | -                      |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GSH64V2B3    | -                        | -                      |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GSH64V2B3-G  | -                        | -                      |
| 8GB      | (1Gx16)x4             | 1Rx16       | TS1GSH64V2G     | TS1GSH64V2G-I            | -                      |
| 8GB      | (1Gx16)x4             | 1Rx16       | TS1GSH64V2G3    | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GSH64V2B     | TS2GSH64V2B-I            | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GSH64V2B-G   | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GSH64V2B3    | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GSH64V2B3-G  | -                        | -                      |
| 16GB     | (2Gx8)x8              | 1Rx8        | TS2GSH64V2E     | TS2GSH64V2E-I            | -                      |
| 16GB     | (2Gx8)x8              | 1Rx8        | TS2GSH64V2E3    | -                        | -                      |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GSH64V2E     | TS4GSH64V2E-I            | -                      |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GSH64V2E-G   | -                        | -                      |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GSH64V2E3    | -                        | -                      |

### DDR4-2666 Long-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 2GB      | (256Mx16)x4           | 1Rx16       | TS256MLH64V6X   | -                        | -                      |
| 4GB      | (512Mx16)x4           | 1Rx16       | TS512MLH64V6D   | -                        | -                      |
| 4GB      | (512Mx8)x8            | 1Rx8        | TS512MLH64V6H   | TS512MLH64V6H-I          | TS512MLH64V6HL         |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GLH64V6B     | -                        | TS1GLH64V6BL           |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GLH64V6B3    | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V6B     | TS2GLH64V6B-I            | TS2GLH64V6BL           |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V6B-G   | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V6B3    | -                        | -                      |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GLH64V6E     | TS4GLH64V6E-I            | TS4GLH64V6EL           |

### DDR4-2666 SO-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) |
|----------|-----------------------|-------------|-----------------|--------------------------|
| 2GB      | (256Mx16)x4           | 1Rx16       | TS256MSH64V6X   | -                        |
| 4GB      | (512Mx16)x4           | 1Rx16       | TS512MSH64V6D   | -                        |
| 4GB      | (512Mx8)x8            | 1Rx8        | TS512MSH64V6H   | TS512MSH64V6H-I          |
| 8GB      | (512Mx8)x16           | 2Rx8        | TS1GSH64V6H     | -                        |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GSH64V6B     | TS1GSH64V6B-I            |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GSH64V6B3    | -                        |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GSH64V6B     | TS2GSH64V6B-I            |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GSH64V6B3    | -                        |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GSH64V6E     | TS4GSH64V6E-I            |
| 32GB     | (2Gx8)x16             | 2Rx8        | TS4GSH64V6E3    | -                        |


[www.transcend-info.com](http://www.transcend-info.com)

### DDR4-2400 Long-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 2GB      | (256Mx16)x4           | 1Rx16       | -               | -                        | TS256MLH64V4XL         |
| 4GB      | (512Mx8)x8            | 1Rx8        | TS512MLH64V4H   | -                        | TS512MLH64V4HL         |
| 8GB      | (512Mx8)x16           | 2Rx8        | TS1GLH64V4H     | -                        | -                      |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GLH64V4B     | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V4B     | -                        | TS2GLH64V4BL           |

### DDR4-2400 SO-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) |
|----------|-----------------------|-------------|-----------------|--------------------------|
| 2GB      | (256Mx16)x4           | 1Rx16       | TS256MSH64V4X   | -                        |
| 4GB      | (512Mx8)x8            | 1Rx8        | TS512MSH64V4H   | TS512MSH64V4H-I          |
| 8GB      | (512Mx8)x16           | 2Rx8        | TS1GSH64V4H     | -                        |
| 8GB      | (1Gx8)x8              | 1Rx8        | TS1GSH64V4B     | TS1GSH64V4B-I            |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GSH64V4B     | TS2GSH64V4B-I            |

### DDR4-2133 Long-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 4GB      | (512Mx8)x8            | 1Rx8        | TS512MLH64V1H   | -                        | -                      |
| 8GB      | (512Mx8)x16           | 2Rx8        | TS1GLH64V1H     | -                        | TS1GLH64V1HL           |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V1B     | -                        | -                      |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GLH64V1B-G   | -                        | -                      |

### DDR4-2133 SO-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) |
|----------|-----------------------|-------------|-----------------|--------------------------|
| 4GB      | (512Mx8)x8            | 1Rx8        | TS512MSH64V1H   | TS512MSH64V1H-I          |
| 8GB      | (512Mx8)x16           | 2Rx8        | TS1GSH64V1H     | TS1GSH64V1H-I            |
| 16GB     | (1Gx8)x16             | 2Rx8        | TS2GSH64V1B     | TS2GSH64V1B-I            |

# DDR4 ECC DIMMs

| Module Type               | DDR4                                                                              |                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           | ECC Long-DIMM                                                                     | ECC SO-DIMM                                                                         |
| Product Image             |  |  |
| Standard                  | JEDEC                                                                             |                                                                                     |
| Speed                     | 3200/2666/2400/2133 Mbps                                                          |                                                                                     |
| Capacity                  | 4GB~32GB                                                                          |                                                                                     |
| Voltage                   | 1.2V                                                                              |                                                                                     |
| Pin Count                 | ECC Long-DIMM: 288 pin                                                            | ECC SO-DIMM: 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     | Standard Temperature: 0°C~ 95°C<br>Wide Temperature: -40°C~ 95°C                  |                                                                                     |

## Ordering Information

### DDR4-3200 ECC Long-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GLH72V2B     | TS1GLH72V2B-I            | TS1GLH72V2BL           |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GLH72V2B     | TS2GLH72V2B-I            | TS2GLH72V2BL           |
| 16GB     | (1Gx8)x18             | 2Rx8        | -               | -                        | TS2GLH72V2B3L          |
| 16GB     | (2Gx8)x9              | 1Rx8        | TS2GLH72V2E     | -                        | -                      |
| 16GB     | (2Gx8)x9              | 1Rx8        | TS2GLH72V2E3    | -                        | -                      |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GLH72V2E     | TS4GLH72V2E-I            | -                      |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GLH72V2E3    | -                        | TS4GLH72V2E3L          |

### DDR4-3200 ECC SO-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MSH72V2H   | -                        | -                      |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GSH72V2B     | TS1GSH72V2B-I            | -                      |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GSH72V2B3    | TS1GSH72V2B3-I           | -                      |
| 8GB      | (512Mx8)x18           | 2Rx8        | TS1GSH72V2H     | TS1GSH72V2H-I            | -                      |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GSH72V2B     | TS2GSH72V2B-I            | -                      |
| 16GB     | (2Gx8)x9              | 1Rx8        | TS2GSH72V2E     | -                        | -                      |
| 16GB     | (2Gx8)x9              | 1Rx8        | TS2GSH72V2E3    | TS2GSH72V2E3-I           | -                      |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GSH72V2E     | TS4GSH72V2E-I            | -                      |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GSH72V2E3    | TS4GSH72V2E3-I           | -                      |


[www.transcend-info.com](http://www.transcend-info.com)

### DDR4-2666 ECC Long-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MLH72V6H   | TS512MLH72V6H-I          | TS512MLH72V6HL         |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GLH72V6B     | TS1GLH72V6B-I            | TS1GLH72V6BL           |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GLH72V6B3    | -                        | -                      |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GLH72V6B     | -                        | TS2GLH72V6BL           |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GLH72V6E     | TS4GLH72V6E-I            | TS4GLH72V6EL           |

### DDR4-2666 ECC SO-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) |
|----------|-----------------------|-------------|-----------------|--------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MSH72V6H   | TS512MSH72V6H-I          |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GSH72V6B     | TS1GSH72V6B-I            |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GSH72V6B     | TS2GSH72V6B-I            |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GSH72V6E     | TS4GSH72V6E-I            |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GSH72V6E3    | -                        |

### DDR4-2400 ECC Long-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MLH72V4H   | -                        | -                      |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GLH72V4B     | -                        | -                      |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GLH72V4B     | -                        | -                      |
| 16GB     | (1Gx8)x18             | 2Rx8        | -               | -                        | TS2GLH72V4B3L          |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GLH72V4E     | -                        | -                      |

### DDR4-2400 ECC SO-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) |
|----------|-----------------------|-------------|-----------------|--------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MSH72V4H   | -                        |
| 8GB      | (512Mx8)x18           | 2Rx8        | -               | TS1GSH72V4H-I            |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GSH72V4B     | -                        |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GSH72V4B     | TS2GSH72V4B-I            |

### DDR4-2133 ECC Long-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|--------------------------|------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MLH72V1H   | -                        | -                      |
| 8GB      | (512Mx8)x18           | 2Rx8        | TS1GLH72V1H     | -                        | -                      |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GLH72V1B     | -                        | -                      |

### DDR4-2133 ECC SO-DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~ 95°C) |
|----------|-----------------------|-------------|-----------------|--------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MSH72V1H   | -                        |
| 8GB      | (512Mx8)x18           | 2Rx8        | TS1GSH72V1H     | TS1GSH72V1H-I            |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GSH72V1B     | TS2GSH72V1B-I            |

# DDR4 Registered DIMMs

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| Module Type               | DDR4                                                                               |
|                           | Registered DIMM                                                                    |
| Product Image             |  |
| Standard                  | JEDEC                                                                              |
| Speed                     | 3200/2933/2666/2400/2133 Mbps                                                      |
| Capacity                  | 4GB~32GB                                                                           |
| Voltage                   | 1.2V                                                                               |
| Pin Count                 | R-DIMM: 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     | Standard Temperature: 0°C~95°C<br>Wide Temperature: -40°C~95°C                     |

## Ordering Information

### DDR4-3200 Registered DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|-------------------------|------------------------|
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GHR72V2B     | -                       | -                      |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GHR72V2B3    | -                       | -                      |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GHR72V2B     | -                       | TS2GHR72V2BL           |
| 16GB     | (2Gx8)x9              | 1Rx8        | TS2GHR72V2E     | TS2GHR72V2EL            | -                      |
| 32GB     | (2Gx4)x36             | 2Rx4        | TS4GHR72V2C     | -                       | -                      |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GHR72V2E     | TS4GHR72V2E-I           | TS4GHR72V2EL           |
| 32GB     | (2Gx8)x18             | 2Rx8        | TS4GHR72V2E3    | -                       | -                      |
| 32GB     | (2Gx4)x36             | 2Rx4        | TS4GHR72V2C-SAM | -                       | -                      |
| 64GB     | (4Gx4)x36             | 2Rx4        | TS8GHR72V2F-SAM | -                       | -                      |


[www.transcend-info.com](http://www.transcend-info.com)

### DDR4-2666 Registered DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|-------------------------|------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MHR72V6H   | -                       | -                      |
| 8GB      | (512Mx8)x18           | 2Rx8        | TS1GHR72V6H     | -                       | -                      |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GHR72V6B     | -                       | -                      |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GHR72V6B     | -                       | TS2GHR72V6BL           |
| 32GB     | (2Gx4)x36             | 2Rx4        | TS4GHR72V6C     | -                       | -                      |
| 32GB     | (2Gx8)x18             | 2Rx8        | -               | TS4GHR72V6E-I           | -                      |

### DDR4-2400 Registered DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|-------------------------|------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MHR72V4H   | -                       | -                      |
| 8GB      | (512Mx8)x18           | 2Rx8        | -               | -                       | TS1GHR72V4HL           |
| 8GB      | (1Gx8)x9              | 1Rx8        | TS1GHR72V4B     | -                       | -                      |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GHR72V4B     | -                       | TS2GHR72V4BL           |

### DDR4-2133 Registered DIMM

| Capacity | Component Composition | Rank x Org. | Standard (1.2V) | Wide Temp. (-40°C~95°C) | Very Low Profile (VLP) |
|----------|-----------------------|-------------|-----------------|-------------------------|------------------------|
| 4GB      | (512Mx8)x9            | 1Rx8        | TS512MHR72V1H   | -                       | -                      |
| 8GB      | (512Mx8)x18           | 2Rx8        | TS1GHR72V1H     | -                       | TS1GHR72V1HL           |
| 16GB     | (1Gx8)x18             | 2Rx8        | TS2GHR72V1B     | -                       | TS2GHR72V1BL           |

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.  
Tel: +886-2-2792-8000 [www.transcend-info.com](http://www.transcend-info.com)



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660