Transcend®

www.transcend-info.com

DRAM Modules

# DDR5

Transcend's DDR5 DRAM modules operate at a nominal voltage of only 1.1V, offering higher energy efficiency and exceptional clock speeds to cater to the demands of the embedded industry. Power management integrated circuits (PMIC) provides better signal integrity and more stable power. 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

- 1.1V low power supply
- Power management IC (PMIC), high energy efficiency
- On-die ECC
- Burst Length: 16, 32
- 16 bit pre-fetch
- Multi-Purpose Command (MPC)
- Decision Feedback Equalization (DFE)
- SPD Hub with Thermal Sensor
- 100% tested for stability, compatibility and performance
- Limited Lifetime Warranty

## Advanced Technologies

$SO_2$

Anti-Sulfur Technology

30µ"

30 µ" Gold Finger

© Transcend Information, Inc. All Rights Reserved.

# DDR5 DIMMs

| Module Type | DDR5 Long-DIMM | DDR5 SO-DIMM |
|---|---|---|
| Standard | JEDEC® | |
| Speed | 5600/4800MT/s | |
| Capacity | 8GB~32GB | |
| Voltage | 1.1V | |
| Pin Count | 288 pin | 262 pin |
| PCB Height | 1.23 inches | 1.18 inches |
| PCB Gold Finger Thickness | 30μ" (ECC & Registered) | |
| Anti-Sulfuration | Default (ECC & Registered) | |
| Operating Temperature | Standard Temperature: 0°C ~ 95°C<br>Wide Temperature: -40°C~ 95°C | |

## Ordering Information

### DDR5-5600 Unbuffered DIMM

| | Capacity | Component Composition | Rank x Org. | Long-DIMM | SO-DIMM |
|---|---|---|---|---|---|
| Standard Temp. (0°C~ 95°C) | 8GB | (1Gx16)x4 | 1Rx16 | TS1GLA64V6G | TS1GSA64V6G |
| | 16GB | (2Gx8)x8 | 1Rx8 | TS2GLA64V6E | TS2GSA64V6E |
| | 32GB | (2Gx8)x16 | 2Rx8 | TS4GLA64V6E | TS4GSA64V6E |

### DDR5-5600 ECC-DIMM

| | Capacity | Component Composition | Rank x Org. | Long-DIMM | SO-DIMM |
|---|---|---|---|---|---|
| Standard Temp. (0°C~ 95°C) | 16GB | (2Gx8)x10 | 1Rx8 | TS2GLA72V6E | TS2GSA72V6E |
| | 32GB | (2Gx8)x20 | 2Rx8 | TS4GLA72V6E | TS4GSA72V6E |

### DDR5-5600 Registered DIMM

| | Capacity | Component Composition | Rank x Org. | Long-DIMM |
|---|---|---|---|---|
| Standard Temp. (0°C~ 95°C) | 16GB | (2Gx8)x10 | 1Rx8 | TS2GAR80V6E |
| | 32GB | (2Gx8)x20 | 2Rx8 | TS4GAR80V6E |

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.

© Transcend Information, Inc. All Rights Reserved.

## Ordering Information

### DDR5-4800 Unbuffered DIMM

| | Capacity | Component Composition | Rank x Org. | Long-DIMM | SO-DIMM |
|---|---|---|---|---|---|
| Standard Temp. (0°C~ 95°C) | 8GB | (1Gx16)x4 | 1Rx16 | TS1GLA64V8G | TS1GSA64V8G |
| | 16GB | (2Gx8)x8 | 1Rx8 | TS2GLA64V8E | TS2GSA64V8E |
| | 32GB | (2Gx8)x16 | 2Rx8 | TS4GLA64V8E | TS4GSA64V8E |
| Wide Temp. (-40°C~ 95°C) | 8GB | (1Gx16)x4 | 1Rx16 | - | TS1GSA64V8G-I |
| | 16GB | (2Gx8)x8 | 1Rx8 | | TS2GSA64V8E-I |
| | 32GB | (2Gx8)x16 | 2Rx8 | | TS4GSA64V8E-I |

### DDR5-4800 ECC-DIMM

| | Capacity | Component Composition | Rank x Org. | Long-DIMM | SO-DIMM |
|---|---|---|---|---|---|
| Standard Temp. (0°C~ 95°C) | 16GB | (2Gx8)x10 | 1Rx8 | TS2GLA72V8E | TS2GSA72V8E |
| | 32GB | (2Gx8)x20 | 2Rx8 | TS4GLA72V8E | TS4GSA72V8E |
| Wide Temp. (-40°C~ 95°C) | 16GB | (2Gx8)x10 | 1Rx8 | - | TS2GSA72V8E-I |

### DDR5-4800 Registered-DIMM

| | Capacity | Component Composition | Rank x Org. | Long-DIMM |
|---|---|---|---|---|
| Standard Temp. (0°C~ 95°C) | 16GB | (2Gx8)x10 | 1Rx8 | TS2GAR80V8E |
| | 32GB | (2Gx8)x20 | 2Rx8 | TS4GAR80V8E |
| Wide Temp. (-40°C~ 95°C) | 32GB | (2Gx8)x20 | 2Rx8 | TS4GAR80V8E-I |

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.

© Transcend Information, Inc. All Rights Reserved.

# 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

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

## EMEA

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