

DRAM Modules
DDR3

Transcend's DDR3 DRAM modules operate at a nominal voltage of 1.5V or 1.35V, offering 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 1.5V ± 0.075V power supply
- Low Voltage models: JEDEC standard 1.35V (1.28V~1.45V) power supply
- 8 bit pre-fetch
- Burst Length: 4, 8
- Internal calibration through ZQ pin
- 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 µ" Gold Finger

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DDR3 Unbuffered DIMMs





Module Type	DDR3 Long-DIMM	DDR3 SO-DIMM
Standard	JEDEC®	
Speed	1866/1600/1333 MT/s	
Capacity	1GB~8GB	
Voltage	Standard voltage: 1.5V Low voltage: 1.35V	
Pin Count	240 pin	204 pin
PCB Height	1.18 inches	
Operating Temperature	Standard Temperature: 0°C~ 85°C Wide Temperature: -40°C~ 85°C	

DDR3-1866 Unbuffered DIMMs

	Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Low Voltage (0°C ~ 85°C)	4GB	(512Mx8)x8	1Rx8	TS512MLK64W8H	TS512MSK64W8H
	8GB	(512Mx8)x16	2Rx8	-	TS1GSK64W8H
Low Voltage + Wide Temp. (-40°C ~ 85°C)	4GB	(512Mx8)x8	1Rx8	-	TS512MSK64W8H-I
	8GB	(512Mx8)x16	2Rx8	-	TS1GSK64W8H-I

DDR3-1600 Unbuffered DIMMs

	Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C~ 85°C)	2GB	(256Mx8)x8	1Rx8		TS256MSK64V6N1
	4GB	(512Mx8)x8	1Rx8	TS512MLK64V6H	TS512MSK64V6H
	8GB	(512Mx8)x16	2Rx8	TS1GLK64V6H	TS1GSK64V6H
Wide Temp. (-40°C~ 85°C)	4GB	(512Mx8)x8	1Rx8	TS512MLK64V6H-I	TS512MSK64V6H-I
	8GB	(512Mx8)x16	2Rx8	TS1GLK64V6H-I	TS1GSK64V6H-I
Very Low Profile (0°C~ 85°C)	4GB	(512Mx8)x8	1Rx8	TS512MLK64W6HL	-
Low Voltage (0°C ~ 85°C)	2GB	(256Mx8)x8	1Rx8	TS256MLK64W6N3	TS256MSK64W6N3
	4GB	(256Mx8)x16	2Rx8	TS512MLK64W6N3	TS512MSK64W6N3
		(512Mx8)x8	1Rx8	TS512MLK64W6H3	TS512MSK64W6H3
		(512Mx8)x8	1Rx8	TS512MLK64W6H	TS512MSK64W6H
	8GB	(512Mx8)x16	2Rx8	TS1GLK64W6H3	TS1GSK64W6H3
		(512Mx8)x16	2Rx8	TS1GLK64W6H	TS1GSK64W6H
Low Voltage + Wide Temp. (-40°C ~ 85°C)	1GB	(128Mx8)x8	1Rx8	TS128MLK64W6U-I	TS128MSK64W6U-I
	2GB	(256Mx8)x8	1Rx8	TS256MLK64W6N3-I	TS256MSK64W6N3-I
	4GB	(256Mx8)x16	2Rx8	TS512MLK64W6N3-I	TS512MSK64W6N3-I
		(512Mx8)x8	1Rx8	TS512MLK64W6H3-I	TS512MSK64W6H3-I
		(512Mx8)x8	1Rx8	TS512MLK64W6H-I	TS512MSK64W6H-I
	8GB	(512Mx8)x16	2Rx8	TS1GLK64W6H3-I	TS1GSK64W6H3-I
		(512Mx8)x16	2Rx8	TS1GLK64W6H-I	TS1GSK64W6H-I

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DDR3-1333 Unbuffered DIMMs

	Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C~ 85°C)	1GB	(128Mx8)x8	1Rx8	TS128MLK64V3U	TS128MSK64V3U
	2GB	(128Mx8)x16	2Rx8	TS256MLK64V3U	TS256MSK64V3U
	4GB	(512Mx8)x8	1Rx8	TS512MLK64V3H	TS512MSK64V3H
	8GB	(512Mx8)x16	2Rx8	TS1GLK64V3H	TS1GSK64V3H
Wide Temp. (-40°C~ 85°C)	1GB	(128Mx8)x8	1Rx8	TS128MLK64V3U-I	TS128MSK64V3U-I
	2GB	(128Mx8)x16	2Rx8	TS256MLK64V3U-I	TS256MSK64V3U-I

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DDR3 ECC DIMMs





Module Type	ECC Long-DIMM	ECC SO-DIMM
Standard	JEDEC®	
Speed	1600/1333 Mbps	
Capacity	2GB~8GB	
Voltage	1.2V	
Pin Count	Standard voltage: 1.5V Low voltage: 1.35V	
PCB Height	240 pin	204 pin
PCB Gold Finger Thickness	30µ"	
Anti-Sulfuration	Default	
Operating Temperature	Standard Temperature: 0°C~ 85°C Wide Temperature: -40°C~ 85°C	

DDR3-1600 ECC DIMMs

	Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C~ 85°C)	4GB	(512Mx8)x9	1Rx8	TS512MLK72V6H	TS512MSK72V6H
	8GB	(512Mx8)x18	2Rx8	TS1GLK72V6H	TS1GSK72V6H
Very Low Profile (0°C~ 85°C)	4GB	(512Mx8)x9	1Rx8	TS512MLK72W6HL	-
	8GB	(512Mx8)x18	2Rx8	TS1GLK72W6HL	-
Low Voltage (0°C ~ 85°C)	4GB	(512Mx8)x9	1Rx8	TS512MLK72W6H	TS512MSK72W6H
	8GB	(512Mx8)x18	2Rx8	TS1GLK72W6H	TS1GSK72W6H
Low Voltage + Wide Temp. (-40°C ~ 85°C)	4GB	(512Mx8)x9	1Rx8	TS512MLK72W6H-I	TS512MSK72W6H-I
	8GB	(512Mx8)x18	2Rx8	TS1GLK72W6H-I	TS1GSK72W6H-I

DDR3-1333 ECC DIMMs

	Capacity	Component Composition	Rank x Org.	Long-DIMM	SO-DIMM
Standard Temp. (0°C~ 85°C)	2GB	(128Mx8)x18	2Rx8	TS256MLK72V3U	TS256MSK72V3U
	8GB	(512Mx8)x18	2Rx8	TS1GLK72V3H	TS1GSK72V3H
Wide Temp. (-40°C~ 85°C)	2GB	(128Mx8)x18	2Rx8	TS256MLK72V3U-I	TS256MSK72V3U-I
	8GB	(512Mx8)x18	2Rx8	TS1GLK72V3H-I	TS1GSK72V3H-I

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DDR3 Registered DIMMs



Module Type	**R-DIMM**
Standard	JEDEC®
Speed	1600/1333 Mbps
Capacity	8GB~16GB
Voltage	Standard voltage: 1.5V Low voltage: 1.35V
Pin Count	240 pin
PCB Height	Standard: 1.18 inches Very Low Profi le: 0.74 inches
PCB Gold Finger Thickness	30µ"
Anti-Sulfuration	Default
Operating Temperature	Standard Temperature: 0°C~ 85°C

DDR3-1600 Registered DIMMs

	Capacity	Component Composition	Rank x Org.	Long-DIMM
Standard Temp. (0°C~ 85°C)	8GB	(512Mx8)x18	2Rx8	TS1GKR72V6H
Very Low Profile (0°C~ 85°C)	8GB	(512Mx8)x18	2Rx8	TS1GKR72V6HL
Low Voltage (0°C ~ 85°C)	4GB	(512Mx8)x9	1Rx8	TS512MKR72W6H
	8GB	(512Mx8)x18	2Rx8	TS1GKR72W6H

DDR3-1333 Registered DIMMs

	Capacity	Component Composition	Rank x Org.	Long-DIMM
Standard Temp. (0°C~ 85°C)	16GB	(512Mx8)x36	4Rx8	TS2GKR72V3H

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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