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# MT53B256M32D1DS-062 AUT

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## Data Sheets (2)

**Data Sheet**

**Production Data Sheet: 200-Ball Z01M LPDDR4 SDRAM Automotive**

Automotive DRAM  
Mobile LPDDR4

MT53B256M32D1NP-062 AAT:C, MT53B256M32D1NP-062 AIT:C, MT53B256M32D1NP-062 AUT:C, MT53B512M32D2NP-062 AAT:C, MT53B512M32D2NP-062 AIT:C, MT53B512M32D2NP-062 AUT:C

**File Type:** PDF      **Updated:** 03/2017

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**Data Sheet**

**200-Ball Z91M Automotive LPDDR4 SDRAM**

Automotive DRAM  
Embedded  
Mobile LPDDR4

200b, SDP, DDP, LPDDR4 SDRAM

**File Type:** PDF      **Updated:** 10/2016

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## Specs

Orderable Parts for: MT53B256M32D1DS-062 AUT

[SEE ALL LPDRAM PARTS](#)

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT53B256M32D1DS-062 AUT:C	Sampling	N/A	D9VXZ	N/A	N/A	No		N/A

## Detailed Specifications

Technology	LPDDR4	Density	8Gb	Part Status	Sampling	RoHS	Yes
Depth	256Mb	Width	x32	Voltage	1.1V	Package	WFBGA
Pin Count	200-ball	Clock Rate	1600 MHz	Data Rate	DDR4-3200	Cycle Time	
Op. Temp.	-40C to +125C	Brand	Micron				

## Sim Models & Software

### Sim Models

HSpice



#### Z01M HSPICE (ZIP)

DRAM  
Mobile LPDDR4

Z01M Mobile LPDDR4 SDRAM, Die Rev. C

File Type: ZIP

Updated: 03/15/2017

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IBIS



#### Z01M IBIS (ZIP)

DRAM  
Mobile LPDDR4

Z01M Mobile LPDDR4 SDRAM, Die Rev. C, SDP, DDP, QDP, 200b, 272b, 366b, 432b

File Type: ZIP

Updated: 03/15/2017

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## RoHS Certificates

### RoHS Certificates

#### RoHS Certificate of Compliance (PDF)

Part-specific certification of how this product meets the requirements of the current DIRECTIVE 2002/95/EC, a.k.a. Restriction of Hazardous Substances (RoHS) Directive.

File Type: (PDF)

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### RoHS Certificates

#### China RoHS Certificate (PDF)

Part-specific certification as required by China's Management Methods for Controlling Pollution by Electronic Information Products.

# Documentation & Support

[See All LPDRAM Documentation](#)

## Technical Notes

SEARCH (9) LPDRAM TECHNICAL NOTES

### Technical Notes

#### Technical Note: Low-Power Function of Mobile RAM - Deep Power Down (DPD) (PDF)

DRAM  
LPDRAM

(E0598E21) This technical note describes Deep Power Down (DPD), one of the low-power functions that have been adapted to Mobile DRAM.

File Type: PDF

Updated: 02/26/2014

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### Technical Notes

#### Technical Note: Low-Power Function of Mobile RAM - Partial Array Self Refresh (PASR) (PDF)

DRAM  
LPDRAM

(E0597E10) This technical note describes Partial Array Self Refresh (PASR), one of the low-power functions that have been adapted to Mobile DRAM.

File Type: PDF

Updated: 02/26/2014

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### Technical Notes

#### Technical Note: Low-Power Function of Mobile RAM - Auto Temperature Compensated Self Refresh (ATCSR) (PDF)

DRAM  
LPDRAM

(E0599E20) This technical note describes Auto Temperature Compensated Self Refresh (ATCSR), one of the low-power functions that have been adapted to Mobile DRAM.

File Type: PDF

Updated: 02/26/2014

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### Technical Notes

#### TN-00-01: Moisture Sensitivity of Plastic Packages (PDF)

DDR SDRAM  
DDR2 SDRAM  
DDR3 SDRAM  
DDR3L-RS  
[See More Tags](#)

(TN-00-01) This technical note describes shipping procedures for preventing memory devices from absorbing moisture and recommendations for baking devices exposed to excessive moisture.

File Type: PDF

Updated: 02/14/2013

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**TN-46-23: Backward Compatibility for Faster LPDDR SDRAM (PDF)**

DRAM  
LPDRAM  
Mobile

(TN-46-23) This technical note reviews the timing differences between the faster and slower LPDDR SDRAM speeds and explains how faster parts function compatibly with slower parts.

File Type: PDF

Updated: 02/04/2013

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SEARCH (9) LPDRAM TECHNICAL NOTES

Parts with the same Data Sheet (5)

<b>MT53B256M32D1DS-062 AU T ( Current )</b>	<b>MT53B256M32D1DS-062 AA T</b>	<b>MT53B256M32D1DS-062 AIT</b>	<b>MT53B256M32D1NP-062 AU T</b>	
Part Status	Sampling	Sampling	Sampling	Production
Technology	<b>LPDDR4</b>	LPDDR4	LPDDR4	LPDDR4
Density	<b>8Gb</b>	8Gb	8Gb	8Gb
RoHS	<b>Yes</b>	Yes	Yes	Yes
Depth	<b>256Mb</b>	256Mb	256Mb	256Mb
Width	<b>x32</b>	x32	x32	x32
Voltage	<b>1.1V</b>	1.1V	1.1V	1.1V
Package	<b>WFBGA</b>	WFBGA	WFBGA	WFBGA
Pin Count	<b>200-ball</b>	200-ball	200-ball	200-ball
Clock Rate	<b>1600 MHz</b>	1600 MHz	1600 MHz	1600 MHz
Data Rate	<b>DDR4-3200</b>	DDR4-3200	DDR4-3200	DDR4-3200
Cycle Time				
Op. Temp.	<b>-40C to +125C</b>	<b>-40C to +105C</b>	<b>-40C to +95C</b>	<b>-30C to +85C</b>
Brand	<b>Micron</b>	Micron	Micron	Micron

**MT53B256M32D1DS-062 AU  
T  
( Current )**


# Where to Buy

Part Status	<b>Sampling</b>
Technology	<b>LPDDR4</b>
Density	<b>8Gb</b>
RoHS	<b>Yes</b>
Depth	<b>256Mb</b>
Width	<b>x32</b>
Voltage	<b>1.1V</b>
Package	<b>WFBGA</b>
Pin Count	<b>200-ball</b>
Clock Rate	<b>1600 MHz</b>
Data Rate	<b>DDR4-3200</b>
	Cycle Time
Op. Temp.	<b>-40C to +125C</b>
Brand	<b>Micron</b>


Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
Sampling	N/A	D9VXZ	N/A	N/A	No		N/A

- OR - Check with Distributors

Your Region:


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[See All Distributors](#)

## Products

- DRAM
- DRAM Modules
- NAND Flash
- Managed NAND
- NOR Flash
- Hybrid Memory Cube
- Multichip Packages
- Memory Cards
- Solid State Drives

## Solutions

- By Industry
  - Automotive Memory Solutions
  - Consumer
  - Embedded Memory Solutions
  - Federal Solutions
  - Financial Services
  - Industrial Memory Solutions
  - Mobile Memory Solutions
  - Networking Innovations

## By Application

- Client
- Cloud
- Data Center
- Storage Data Security
- Enterprise SSD Storage
- Supercomputing Memory

## Support

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- Locations
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- Suppliers

