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# MT53B256M32D1NP-062 WT

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## Data Sheets (1)

**Data Sheet** 

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

MT53B256M32D1, MT53B512M32D2, MT53B1024M32D4

File Type: PDF Updated: 06/2017

DRAM Embedded Mobile LPDDR4

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## Specs

Orderable Parts for: MT53B256M32D1NP-062 WT

[SEE ALL LPDRAM PARTS](#)

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT53B256M32D1NP-062 WT:C	Production	N/A	D9TFT	N/A	N/A	No		N/A

## Detailed Specifications

Technology	LPDDR4	Density	8Gb	Part Status	Production	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.	-30C to +85C	Brand	Micron				

# Sim Models & Software

## Sim Models

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: 07/05/2018

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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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## 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.

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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.

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## Documentation & Support

[See All LPDRAM Documentation](#)

## 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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## Customer Service Notes

[SEE ALL CUSTOMER SERVICE NOTES](#)

## Customer Service Note

**Product Marks, Product Labels, and Packaging Labels (PDF)**3D XPoint  
Client  
Cloud  
Cloud  
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(CSN-11) The first section of this customer service note describes the product marks and labels we place on our devices. The second section describes the labels used on and in our packaging.

File Type: PDF

Updated: 03/08/2018

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## Customer Service Note

**Micron BGA Manufacturer's User Guide (PDF)**DDR2 SDRAM  
DDR4 SDRAM  
Embedded USB  
eMMC  
[See More Tags](#)

(CSN-33) Provides information to enable customers to easily integrate both leading-edge and legacy Micron's ball grid array (BGA) packages into their manufacturing processes. It is intended as a set of high-level guidelines and a reference manual describing typical package-related and...

File Type: PDF

Updated: 12/10/2014

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# Parts with the same Data Sheet (5)


MT53B256M32D1NP-062 WT ( Current )		MT53B256M32D1DS-062 XT	MT53B256M32D1NP-053 WT	MT53B512M32D2NP-062 WT
Part Status	Production	Sampling	Production	Production
Technology	LPDDR4	LPDDR4	LPDDR4	LPDDR4
Density	8Gb	8Gb	8Gb	16Gb
RoHS	Yes	Yes	Yes	Yes
Depth	256Mb	256Mb	256Mb	512Mb
Width	x32	x32	x32	x32
Voltage	1.1V	1.1V	1.1V	1.1V
Package	WFBGA	WFBGA	WFBGA	WFBGA
Pin Count	200-ball	200-ball	200-ball	200-ball
Clock Rate	1600 MHz	1600 MHz	1866 MHz	1600 MHz
Data Rate	DDR4-3200	DDR4-3200	DDR4-3733	DDR4-3200
Cycle Time				
Op. Temp.	-30C to +85C	-30C to +105C	-30C to +85C	-30C to +85C
Brand	Micron	Micron	Micron	Micron

MT53B256M32D1NP-062 WT ( Current )	
Part Status	Production
Technology	LPDDR4
Density	8Gb
RoHS	Yes
Depth	256Mb
Width	x32
Voltage	1.1V
Package	WFBGA
Pin Count	200-ball


## Where to Buy

- OR - Check with Distributors

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[See All Distributors](#)

Clock Rate	<b>1600 MHz</b>
Data Rate	<b>DDR4-3200</b>
Cycle Time	
Op. Temp.	<b>-30C to +85C</b>
Brand	<b>Micron</b>

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