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MT53B384M32D2NP-053 WT

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Data Sheets (1)

Data Sheet

200-Ball Z0AM Embedded LPDDR4 SDRAM

MT53B384M32D2, MT53B768M32D4

File Type: PDF Updated: 03/2017

DRAM Embedded Mobile LPDDR4

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Specs

Orderable Parts for: MT53B384M32D2NP-053 WT

[SEE ALL LPDRAM PARTS](#)

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT53B384M32D2NP-053 WT:B	Production	N/A	D9VTM	N/A	N/A	No		N/A

Detailed Specifications

Technology	LPDDR4	Density	12Gb	Part Status	Production	RoHS	Yes
Depth	384Mb	Width	x32	Voltage	1.1V	Package	WFBGA
Pin Count	200-ball	Clock Rate	1866 MHz	Data Rate	DDR4-3733	Cycle Time	
Op. Temp.	-30C to +85C	Brand	Micron				

Sim Models & Software

Sim Models

IBIS



Z0AM IBIS (ZIP)

DRAM
Mobile LPDDR4

(Z0AM) Z0AM Mobile LPDDR4 SDRAM, Die Rev. B, Partial PNs: MT53B384M32D2NP-062 AAT:B, MT53B384M32D2NP-062 AIT:B, MT53B384M32D2NP-062 AUT:B, MT53B768M32D4NQ-062 AIT:B

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)

Updated: 08/2017

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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.

File Type: (PDF)

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Documentation & Support

[See All Documentation](#)

Technical Notes

SEARCH (78) TECHNICAL NOTES

Technical Notes

TN-40-40: DDR4 Point-to-Point Design Guide (PDF)

DDR4 SDRAM
DRAM

(TN-40-40) DDR4 Point-to-Point Design Guide

File Type: PDF

Updated: 07/31/2017

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Technical Notes

TN-ED-01: GDDR5 SGRAM Introduction (PDF)

Consumer/Connected Home
DRAM
GDDR5
Low Latency
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(TN-ED-01) This technical note describes the features and benefits of GDDR5 SGRAM, which is ideal for graphics cards, game consoles, and high-performance computing..

File Type: PDF

Updated: 02/27/2017

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Technical Notes

TN-00-08: Thermal Applications (PDF)

DRAM
Managed NAND
Multichip Packages
NAND Flash
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(TN-00-08) Describes some considerations in thermal applications for Micron memory devices

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Updated: 01/24/2017

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Technical Notes



TN-46-22: T69M (50nm) to T79M (4xnm) Transition Guide (PDF)

DRAM
Mobile LPDDR

(TN-46-22) Transition guide for migration from T69M to T79M

File Type: PDF

Updated: 06/24/2016

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Technical Notes

TN-ED-02: GDDR5X: The Next-Generation Graphics DRAM (PDF)

DRAM
GDDR5X

(TN-ED-02) This technical note compares GDDR5 and GDDR5X and discusses the evolution of GDDR5X.

File Type: PDF

Updated: 05/31/2016

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SEARCH (78) TECHNICAL NOTES

Customer Service Note

Customer Service Note

Customer Service Note

Shipping Quantities (PDF)

DRAM
DRAM Modules
Hybrid Memory Cube
Multichip Packages
[See More Tags](#)

(CSN-04) This customer service note describes the standard shipping quantity, box quantity, and types such as tape and reel for Micron's products.

File Type: PDF

Updated: 07/06/2017

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Customer Service Note

Wafer Packaging and Packaging Materials (PDF)

DRAM
NAND Flash

(CSN-20) Provides complete shipping and recycling information about each of the materials used for shipping Micron's products.

File Type: PDF

Updated: 06/21/2016

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Customer Service Note

Micron 95nm Legacy 256Mb and 512Mb DRAM Component Update (PDF)

DRAM

(CSN-37) Describes certain legacy products.

File Type: PDF

Updated: 01/09/2015

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SEARCH (3) CUSTOMER SERVICE NOTE

Parts with the same Data Sheet (4)

MT53B384M32D2NP-053 WT (Current)	MT53B384M32D2DS-062 XT	MT53B384M32D2NP-062 WT	MT53B768M32D4NQ-053 WT
Part Status	Production	Production	Production
Technology	LPDDR4	LPDDR4	LPDDR4
Density	12Gb	12Gb	24Gb
RoHS	Yes	Yes	Yes
Depth	384Mb	384Mb	768Mb
Width	x32	x32	x32
Voltage	1.1V	1.1V	1.1V
Package	WFBGA	WFBGA	WFBGA

Pin Count	200-ball	200-ball	200-ball	200-ball
Clock Rate	1866 MHz	1600 MHz	1600 MHz	1866 MHz
Data Rate	DDR4-3733	DDR4-3200	DDR4-3200	DDR4-3733
Cycle Time				
Op. Temp.	-30C to +85C	-30C to +105C	-30C to +85C	-30C to +85C
Brand	Micron	Micron	Micron	Micron

MT53B384M32D2NP-053 WT
(Current)

Part Status **Production**

Technology **LPDDR4**

Density **12Gb**

RoHS **Yes**

Depth **384Mb**

Width **x32**

Voltage **1.1V**

Package **WFBGA**

Pin Count **200-ball**

Clock Rate **1866 MHz**

Data Rate **DDR4-3733**

Cycle Time

Op. Temp. **-30C to +85C**



Brand **Micron**

Where to Buy

Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
Production	N/A	D9VTM	N/A	N/A	No		N/A

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Products

DRAM
DRAM Modules
NAND Flash
Managed NAND
NOR Flash
Hybrid Memory Cube
Multichip Packages
Memory Cards

Solutions

By Industry
Automotive Memory Solutions
Consumer/Connected Home
Embedded Memory Solutions
Federal Solutions
Mobile Memory Solutions
Networking Innovations

By Application

Client SSD Storage
Hyperscale/Private Cloud
Data Center
Storage Data Security
Enterprise SSD Storage
Supercomputing Memory

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