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MT53B512M32D2DS-062 AIT

DATA SHEETS (2) | SPECS | SIM MODELS & SOFTWARE | ROHS CERTIFICATES | DOCUMENTATION & SUPPORT | PARTS WITH THE SAME DATA SHEET (5) | WHERE TO BUY | DATA SHEETS (2) | SPECS | SIM MODELS & SOFTWARE

Data Sheets (2)

Data Sheet 


200-Ball Z91M Automotive LPDDR4 SDRAM

MT53B256M32D1, MT53B512M32D2

Automotive DRAM
Embedded Mobile LPDDR4

File Type: PDF **Updated:** 05/2018

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Data Sheet 

Production Data Sheet: 200-Ball Z01M LPDDR4 SDRAM Automotive

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

Automotive DRAM
Mobile LPDDR4

File Type: PDF **Updated:** 05/2018

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Specs

Orderable Parts for: MT53B512M32D2DS-062 AIT

SEE ALL 16GB LPDRAM PARTS

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT53B512M32D2DS-062 AIT:C	Sampling	N/A	D9VXR	N/A	N/A	No		N/A

Detailed Specifications

Technology	LPDDR4	Density	16Gb	Part Status	Sampling	RoHS	Yes
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Depth	512Mb	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 +95C	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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Updated: 07/2018

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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 Documentation](#)

Technical Notes

SEARCH (81) TECHNICAL NOTES

Technical Notes

TN-ED-04: GDDR6 Design Guide (PDF)

This technical note is designed to help designers implement GDDR6 as an off-the-shelf memory with established packaging, handling and testing. It outlines best practices for signal and power integrity, as well as standard GDDR6 DRAM features, to help system designs achieve the...

DRAM
GDDR6N
Graphics
Performance

File Type: PDF

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Technical Notes



TN-53-06: LPDDR4 Point-to-Point Design Guidelines (PDF)

(TN-53-06) Proven layout and routing techniques are required for embedded and mobile designs using point-to-point DRAM interfaces in side by side (non-PoP) configurations . Derived from transmission line theory and Micron design experience, the guidelines presented in this technical note...

DRAM
Mobile LPDDR4

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Parts with the same Data Sheet (5)

MT53B512M32D2DS-062 AIT (Current)	MT53B256M32D1DS-062 AA T	MT53B256M32D1DS-062 AIT	MT53B256M32D1DS-062 AU T
Part Status	Sampling	Contact Factory	Sampling
Technology	LPDDR4	LPDDR4	LPDDR4
Density	16Gb	8Gb	8Gb
RoHS	Yes	Yes	Yes
Depth	512Mb	256Mb	256Mb
Width	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	1600 MHz	1600 MHz
Data Rate	DDR4-3200	DDR4-3200	DDR4-3200	DDR4-3200
Cycle Time				
Op. Temp.	-40C to +95C	-40C to +105C	-40C to +95C	-40C to +125C
Brand	Micron	Micron	Micron	Micron

MT53B512M32D2DS-062 AIT
(Current)

Part Status	Sampling
Technology	LPDDR4
Density	16Gb
RoHS	Yes
Depth	512Mb
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 +95C
Brand	Micron

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Networking Innovations

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