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MT52L512M64D4GN 107 WT

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MT52L512M64D4GN-107 WT

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Data Sheet



Production Data Sheet: V01M 256-Ball, Dual-Channel Mobile LPDDR3 SDRAM

256-Ball, 14x14, DDP, QDP, Dual-Channel, LPDDR3 SDRAM

File Type: PDF

Updated: 09/2015

DRAM

Mobile LPDDR3

Mobile Memory Solutions

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Specs

Orderable Parts for: MT52L512M64D4GN-107 WT

SEE ALL LPDRAM PARTS

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT52L512M64D4GN-107 WT:B	Production	N/A	D9TPL	N/A	N/A	No		N/A

Detailed Specifications

Technology	LPDDR3	Density	32Gb	Part Status	Production	RoHS	Yes
Depth	512Mb	Width	x64	Voltage	1.2V	Package	WFBGA
Pin Count	256-ball	Clock Rate	933 MHz	Data Rate	DDR3-1866	Cycle Time	1.071ns
Op. Temp.	-30C to +85C	Brand	Micron				

# Sim Models & Software

## Sim Models

Verilog



### Verilog: 8Gb Mobile LPDDR3 V01M (ZIP)

DRAM  
Mobile LPDDR3

Verilog simulation model for 8Gb Mobile LPDDR3

File Type: ZIP

Updated: 09/09/2016

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IBIS



### IBIS: V01M Die 168-Ball / 178-Ball / 256-Ball / 253-Ball / 216-Ball / SDP\_DDP\_TDP\_QDP\_8DP Mobile LPDDR3 SDRAM (ZIP)

DRAM  
Mobile LPDDR3  
Mobile Memory Solutions

Rev 1.3\_XT/WT, Rev 1.0\_IT, Die, 168-Ball, 178-Ball, 256-Ball, 253-Ball, 216-Ball, SDP, DDP, TDP, QDP, 8DP, LPDDR3 SDRAM

File Type: ZIP

Updated: 07/14/2016

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## RoHS Certificates

### RoHS Certificates

#### RoHS Certificate of Compliance (PDF)

MT52L512M64D4GN 107 WT

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)

MT52L512M64D4GN 107 WT

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 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  
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(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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## Technical Notes

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

DRAM  
LPDRAM  
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(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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Parts with the same Data Sheet (1)

MT52L512M64D4GN-107 WT ( Current )		MT52L256M64D2GN-107 WT
Part Status	Production	Production
Technology	LPDDR3	LPDDR3
Density	32Gb	16Gb
RoHS	Yes	Yes
Depth	512Mb	256Mb
Width	x64	x64
Voltage	1.2V	1.2V
Package	WFBGA	WFBGA
Pin Count	256-ball	256-ball
Clock Rate	933 MHz	933 MHz
Data Rate	DDR3-1866	DDR3-1866
Cycle Time	1.071ns	1.071ns
Op. Temp.	-30C to +85C	-30C to +85C
Brand	Micron	Micron

Where to Buy

Orderable Parts


	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT52L512M64D4GN-107 WT:B	Production	N/A	D9TPL	N/A	N/A	No		N/A

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