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# MT52L1G32D4PG-107 WT

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## Data Sheets (1)

Data Sheet



### Production Data Sheet: V01M 178-Ball Single-Channel Mobile LPDDR3 SDRAM

DRAM  
Mobile LPDDR3

178-Ball, SDP, DDP, QDP, Single-Channel, LPDDR3 SDRAM

File Type: PDF

Updated: 04/2016

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## Specs

Orderable Parts for: MT52L1G32D4PG-107 WT

[SEE ALL LPDRAM PARTS](#)

|                        | Status     | Media | FBGA Code | SPD Data | Chipset Validation | PLP | Start Date | Alternative Part |
|------------------------|------------|-------|-----------|----------|--------------------|-----|------------|------------------|
| MT52L1G32D4PG-107 WT:B | Production | N/A   | D9SSK     | N/A      | N/A                | No  |            | N/A              |

## Detailed Specifications

|            |              |            |         |             |            |            |         |
|------------|--------------|------------|---------|-------------|------------|------------|---------|
| Technology | LPDDR3       | Density    | 32Gb    | Part Status | Production | RoHS       | Yes     |
| Depth      | 1Gb          | Width      | x32     | Voltage     | 1.2V       | Package    | VFBGA   |
| Pin Count  | 178-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)

MT52L1G32D4PG 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)

Updated: 01/2017

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RoHS Certificates

### China RoHS Certificate (PDF)

MT52L1G32D4PG 107 WT

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 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  
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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## Technical Notes

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

DRAM  
LPDRAM  
Mobile Memory Solutions

(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 (2)

|             | <b>MT52L1G32D4PG-107 WT</b><br>( Current ) | <b>MT52L256M32D1PF-107 WT</b> | <b>MT52L512M32D2PF-107 WT</b> |
|-------------|--|-------------------------------|-------------------------------|
| Part Status | <b>Production</b>                          | <b>Production</b>             | <b>Production</b>             |
| Technology  | <b>LPDDR3</b>                              | LPDDR3                        | LPDDR3                        |
| Density     | <b>32Gb</b>                                | <b>8Gb</b>                    | <b>16Gb</b>                   |
| RoHS        | <b>Yes</b>                                 | Yes                           | Yes                           |
| Depth       | <b>1Gb</b>                                 | <b>256Mb</b>                  | <b>512Mb</b>                  |
| Width       | <b>x32</b>                                 | x32                           | x32                           |
| Voltage     | <b>1.2V</b>                                | 1.2V                          | 1.2V                          |
| Package     | <b>VFBGA</b>                               | <b>WFBGA</b>                  | <b>WFBGA</b>                  |
| Pin Count   | <b>178-ball</b>                            | 178-ball                      | 178-ball                      |
| Clock Rate  | <b>933 MHz</b>                             | 933 MHz                       | 933 MHz                       |
| Data Rate   | <b>DDR3-1866</b>                           | DDR3-1866                     | DDR3-1866                     |
| Cycle Time  | <b>1.071ns</b>                             | 1.071ns                       | 1.071ns                       |
| Op. Temp.   | <b>-30C to +85C</b>                        | -30C to +85C                  | -30C to +85C                  |
| Brand       | <b>Micron</b>                              | Micron                        | Micron                        |

## Where to Buy

## Orderable Parts

|                        | Status            | Media | FBGA Code | SPD Data | Chipset Validation | PLP | Start Date | Alternative Part |
|------------------------|-------------------|-------|-----------|----------|--------------------|-----|------------|------------------|
| MT52L1G32D4PG-107 WT:B | <b>Production</b> | N/A   | D9SSK     | N/A      | N/A                | No  |            | N/A              |

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