

Sim Models & Software

Sim Models

Verilog



Verilog: 4Gb Mobile LPDDR3 2E0F (ZIP)

DRAM
Mobile LPDDR3

Verilog simulation model for 4Gb Mobile LPDDR3

File Type: ZIP

Updated: 09/07/2016

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IBIS



IBIS: 253-Ball 2E0F QDP Mobile LPDDR3 SDRAM (ZIP)

DRAM
Mobile LPDDR3
Mobile Memory Solutions

Rev 1.1 253-ball, QDP, Dual-Channel, LPDDR3 SDRAM

File Type: ZIP

Updated: 09/02/2014

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RoHS Certificates

RoHS Certificates

RoHS Certificate of Compliance (PDF)

EDFA164A2MA-GD-F

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)

EDFA164A2MA-GD-F

Part-specific certification as required by China's Management Methods for Controlling Pollution by Electronic Information Products.

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Documentation & Support

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)

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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.

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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
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(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 (3)

| EDFA164A2MA-GD-F (Current) | | EDFA164A2MA-JD-F | EDF8164A3MA-GD-F | EDF8164A3MA-JD-F |
|---------------------------------|--------------|------------------|------------------|------------------|
| Part Status | Production | Production | Contact Factory | Contact Factory |
| Technology | LPDDR3 | LPDDR3 | LPDDR3 | LPDDR3 |
| Density | 16Gb | 16Gb | 8Gb | 8Gb |
| RoHS | Yes | Yes | Yes | Yes |
| Depth | 256Mb | 256Mb | 128Mb | 128Mb |
| Width | x64 | x64 | x64 | x64 |
| Voltage | 1.2V | 1.2V | 1.2V | 1.2V |
| Package | VFBGA | VFBGA | VFBGA | VFBGA |
| Pin Count | 253-ball | 253-ball | 253-ball | 253-ball |
| Clock Rate | 800 MHz | 933 MHz | 800 MHz | 933 MHz |
| Data Rate | DDR3-1600 | DDR3-1866 | DDR3-1600 | DDR3-1866 |
| Cycle Time | | | | |
| Op. Temp. | -30C to +85C | -30C to +85C | -30C to +85C | -30C to +85C |
| Brand | Micron | Micron | Micron | Micron |

Where to Buy

Orderable Parts

| | Status | Media | FBGA Code | SPD Data | Chipset Validation | PLP | Start Date | Alternative Part |
|--------------------|------------|----------|-----------|----------|--------------------|-----|------------|------------------|
| EDFA164A2MA-GD-F-D | Production | Dry Pack | N/A | N/A | N/A | No | | N/A |


| | | | | | | | |
|--------------------|------------|-------------|-----|-----|-----|----|-----|
| EDFA164A2MA-GD-F-R | Production | Tape & Reel | N/A | N/A | N/A | No | N/A |
|--------------------|------------|-------------|-----|-----|-----|----|-----|

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