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EDFA164A2MA-JD-F

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Data Sheets (1)

[Data Sheet](#)

Production Data Sheet: 8Gb, 16Gb: 253-Ball, Dual-Channel 2E0F Mobile LPDDR3 SDRAM

253-ball, 11x11, DDP, QDP, Dual-Channel, LPDDR3 SDRAM

File Type: PDF **Updated:** 02/2015

DRAM
Mobile LPDDR3
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Specs

Orderable Parts for: EDFA164A2MA-JD-F

[SEE ALL LPDRAM PARTS](#)

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
EDFA164A2MA-JD-F-D	Production	Dry Pack	N/A	N/A	N/A	No		N/A
EDFA164A2MA-JD-F-R	Production	Tape & Reel	N/A	N/A	N/A	No		N/A

Detailed Specifications

Technology	LPDDR3	Density	16Gb	Part Status	Production	RoHS	Yes
Depth	256Mb	Width	x64	Voltage	1.2V	Package	VFBGA
Pin Count	253-ball	Clock Rate	933 MHz	Data Rate	DDR3-1866	Cycle Time	
Op. Temp.	-30C to +85C	Brand	Micron				

Sim Models & Software

Sim Models

Verilog



Verilog: 4Gb Mobile LPDDR3 2E0F (ZIP)

Verilog simulation model for 4Gb Mobile LPDDR3

File Type: ZIP

Updated: 09/07/2016

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Mobile LPDDR3

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IBIS



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

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-JD-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.

File Type: (PDF)

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RoHS Certificates

China RoHS Certificate (PDF)

EDFA164A2MA-JD-F

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

File Type: (PDF)

Updated: 10/2016

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Documentation & Support

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

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 - 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

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
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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 (3)

EDFA164A2MA-JD-F (Current)		EDFA164A2MA-GD-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	933 MHz	800 MHz	800 MHz	933 MHz
Data Rate	DDR3-1866	DDR3-1600	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-JD-F-D	Production	Dry Pack	N/A	N/A	N/A	No		N/A

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