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MT29F512G08CMCEBJ4-37ITR

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SPECS

SIM MODELS & SOFTWARE

Data Sheets (2)

Errata



Errata: 128Gb, 256Gb, 512Gb, x8, Async-Sync NAND (L05B)

MT29F128G08CBCEB, MT29F256G08CECEB, MT29F512G08CMCEB

File Type: PDF

Updated: 03/2018

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NAND Flash

Data Sheet



Advance data sheet: 128-256-512Gb, MLC Fortis Flash NAND (L05B)

MT29F128G08CBCEB, MT29F256G08CECEB, MT29F512G08CMCEB

File Type: PDF

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Specs

Orderable Parts for: MT29F512G08CMCEBJ4-37ITR

SEE ALL MLC NAND PARTS

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT29F512G08CMCEBJ4-37ITR:E	Production	N/A	NQ467	N/A	N/A	No		N/A

Detailed Specifications

Density	512Gb	Status	Sampling	NAND Type	3D	Width	x8
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Voltage	3.3V	Package	VBGA	Pin Count	132-ball	Op. Temp.	-40C to +85C
MT/s	533 MT/s	Product Name					

Sim Models & Software

Sim Models

IBIS



IBIS (ZIP)

128Gb MLC Async/Sync NAND, L05B

File Type: ZIP

Updated: 02/09/2018

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HSpice



HSPICE (ZIP)

128Gb MLC Async/Sync NAND, L05B

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Sim Model



Verilog: NAND 128Gb MLC L05B model (ZIP)

L05B NAND 128Gb Verilog model

File Type: ZIP

Updated: 11/21/2017

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Software

Software Support Pack

[mtd-nand-use-a-lower-value-for-badblockbits-when-working-with-MLC-NAND \(ZIP\)](#)

MLC NANDs have more bit flips than SLC. When looking for bad block marker we have a lot of false positives if we check for the whole byte. To avoid this tolerate a few (4 here) bit flips for byte.

File Type: ZIP

Updated: 03/31/2016

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Software Support Pack

[NAND FLASH lockunlock bug fix \(ZIP\)](#)

Reset NAND before write protect check.

MLC NAND
NAND Flash
SLC NAND

File Type: ZIP

Updated: 03/31/2016

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Software Support Pack

fixup-ubi-cannot-recover-master node issue (ZIP)

MLC NAND
NAND Flash

For MLC NAND, paired page issue is now a common known issue. This patch is just for master node cannot be recovered while there will two pages be damaged in one single master block.

File Type: ZIP

Updated: 03/31/2016

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Software Support Pack

UBI power loss issue for paired page Ver2.0 (ZIP)

MLC NAND
NAND Flash

These patches aim to solve MLC NAND paired page power loss issue by adding a bakvol (backup volume) module in UBI layer. 70 series and 80 series families.

File Type: ZIP

Updated: 03/31/2016

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Software Support Pack

YAFFS mark bad block issue (ZIP)

MLC NAND
NAND Flash
SLC NAND

If the bitflips num over `mtd->bitflip_threshold` the `mtd_read_oob` will return `-EUCLEAN` and `tags->ecc_result > YAFFS_ECC_RESULT_NO_ERROR`. Then we will call `yaffs_handle_chunk_error`.

File Type: ZIP

Updated: 03/31/2016

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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 2011/65/EU and 2015/863/EU, a.k.a. Restriction of Hazardous Substances (RoHS) Directive (Recast) without exemptions.

File Type: (PDF)

Updated: 09/2018

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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.

File Type: (PDF)

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Documentation & Support

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Technical Notes

[SEARCH \(4\) MLC NAND TECHNICAL NOTES](#)

Technical Notes

[TN-00-33: Power Integrity Simulation with IBIS 5.0 Models \(PDF\)](#)

(TN-00-33) This technical note describes the new features in IBIS 5.0 enabling PI simulation. It also provides an overview of some of the modeling accuracy challenges and compares SSO simulation results using various electronic design automation (EDA) software tools.

File Type: PDF

Updated: 01/25/2016

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[DDR3 SDRAM](#)
[DDR4 SDRAM](#)
[DRAM](#)
[See More Tags](#)

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Technical Notes

[TN-00-01: Moisture Sensitivity of Plastic Packages \(PDF\)](#)

(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

[DDR SDRAM](#)
[DDR2 SDRAM](#)
[DDR3 SDRAM](#)
[DDR3L-RS](#)
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Customer Service Notes

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Customer Service Note

[Product Marks, Product Labels, and Packaging Labels \(PDF\)](#)

(CSN-11) The first section of this customer service note describes the product marks and labels we place on our devices. The second section describes the labels used on and in our packaging.

File Type: PDF

Updated: 08/24/2018

[3D XPoint](#)
[Client](#)
[Cloud](#)
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Customer Service Note

[Micron BGA Manufacturer's User Guide \(PDF\)](#)

(CSN-33) Provides information to enable customers to easily integrate both leading-edge and legacy
Downloaded from [Arrow.com](#) their manufacturing processes. It is intended as a set

[DDR2 SDRAM](#)
[DDR4 SDRAM](#)
[Embedded USB](#)
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Parts with the same Data Sheet (2)


MT29F512G08CMCEBJ4-37IT R (Current)	MT29F128G08CBCEBJ4-37ITR	MT29F256G08CECEBJ4-37ITR
Status	Sampling	Sampling
Density	512Gb	128Gb
NAND Type	3D	3D
Width	x8	x8
Voltage	3.3V	3.3V
Package	VBGA	VBGA
Pin Count	132-ball	132-ball
Op. Temp.	-40C to +85C	-40C to +85C
MT/s	533 MT/s	533 MT/s
Product Name		


MT29F512G08CMCEBJ4-37IT R (Current)	
Status	Sampling
Density	512Gb
NAND Type	3D
Width	x8
Voltage	3.3V
Package	VBGA
Pin Count	132-ball
Op. Temp.	-40C to +85C
MT/s	533 MT/s

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By Application

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