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# MT29F4G08ABAEAWP

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## Data Sheets (1)

[Data Sheet](#)

**4Gb x8, x16 M70M NAND Flash Memory Data Sheet**

Embedded Memory Solutions  
 NAND Flash  
 SLC NAND

M70M; Rev. N; Design Revision E

**File Type:** PDF      **Updated:** 04/2014

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## Specs

Orderable Parts for: MT29F4G08ABAEAWP

[SEE ALL SLC NAND PARTS](#)

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT29F4G08ABAEAWP:E	Production	N/A	N/A	N/A	N/A	No		N/A

## Detailed Specifications

<b>Density</b>	4Gb	<b>Status</b>	Production	<b>RoHS</b>	Yes	<b>Width</b>	x8
<b>Voltage</b>	3.3V	<b>Package</b>	TSOP	<b>Pin Count</b>	48-pin	<b>MT/s</b>	
<b>I/O</b>	Common	<b>Op Temp</b>	0C to +70C				

## Sim Models & Software

# Sim Models

Verilog



## Verilog: NAND 4Gb SLC M70M (ZIP)

NAND Flash  
SLC NAND

4Gb Verilog model Rev 7.30

File Type: ZIP

Updated: 08/21/2012

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IBIS

## IBIS: 4Gb: x8, x16 NAND (Rev E) M70M (ZIP)

NAND Flash  
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Rev. 2.0

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HSpice

## HSpice: 4Gb: x8, x16 NAND (Rev E) M70M (ZIP)

NAND Flash  
SLC NAND

Rev. 2.0

File Type: ZIP

Updated: 11/04/2011

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# Software

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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Software Support Pack

## NAND FLASH lockunlock bug fix (ZIP)

MLC NAND  
NAND Flash  
SLC NAND

Reset NAND before write protect check.

File Type: ZIP

Updated: 03/31/2016

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Software Support Pack



## NANDcode Flash Translation Layer (ZIP)

NAND Flash  
SLC NAND

NANDcode is a "C" FTL (Flash Translation Layer) software library for ARM platform.

File Type: ZIP

Updated: 08/08/2014

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## Software Driver

### MT29F, SLC, 60/70 Series (1Gb, 2Gb, 4Gb, 8Gb, 16Gb, 32Gb) General Low-Level Driver for Parallel NAND Flash memory (ZIP)

NAND Flash  
SLC NAND

M60A, M61A, M62B, M68A, M68M, M70M, M71M, M72A, M73A, M79M. Download the technical note for this driver [here](#).

File Type: ZIP

Updated: 04/05/2013

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## Software Driver



### MT29F, SLC, 60 Series (1Gb, 2Gb, 4Gb) General Low-Level Driver for SPI NAND Flash memory (ZIP)

NAND Flash  
Serial NAND  
SLC NAND

M68A, M69A, M60A

File Type: ZIP

Updated: 12/28/2011

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## RoHS Certificates

### RoHS Certificates

#### RoHS Certificate of Compliance (PDF)

MT29F4G08ABAEAWP

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: 12/2016

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### RoHS Certificates

#### China RoHS Certificate (PDF)

MT29F4G08ABAEAWP

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

File Type: (PDF)

Updated: 12/2016

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## Documentation & Support

[See All SLC NAND Documentation](#)

### Technical Notes

SEARCH (17) SLC NAND TECHNICAL NOTES



### TN-13-49: SLC NAND Device Refresh (PDF)

NAND Flash  
SLC NAND

(TN-13-49) This technical note discusses the adverse effects of high temperature and PROGRAM/ERASE (P/E) cycles on flash memory data retention and how the REFRESH operation can be used to mitigate these adverse effects.

File Type: PDF

Updated: 10/31/2016

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### TN-29-58: ONFI NV-DDR2 Design Guide (PDF)

NAND Flash  
SLC NAND

(TN-29-58) This technical note explains the device features that enable NV-DDR2 and provides guidelines for system designs to enable I/O transfer rates of up to 400 MT/s using the NV-DDR2 interface.

File Type: PDF

Updated: 09/29/2016

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### TN-29-76: Using the Block Lock Feature on MT29F NAND Flash Memory Devices (PDF)

NAND Flash  
SLC NAND

(TN-29-76) This technical note describes the block lock feature on Micron's MT29F NAND Flash memory devices.

File Type: PDF

Updated: 08/16/2016

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### TN-29-68: One-Time Programmable Operations in 2Gb: x8, x16 NAND Flash Memory (PDF)

NAND Flash  
SLC NAND

(TN-29-68) This technical note describes one-time programmable operations in Micron's 2Gb: x8, x16 NAND Flash memory devices.

File Type: PDF

Updated: 08/16/2016

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### TN-26-03: How to Read, Program, and Manage Small Page NAND OTP Memory Area (PDF)

NAND Flash  
SLC NAND

(TN-26-03) This technical note explains how to read, program, and manage small page NAND memory.

File Type: PDF

Updated: 08/16/2016

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## Parts with the same Data Sheet (11)

MT29F4G08ABAEAWP ( Current )	MT29F4G16ABAEAH4	MT29F4G08ABAEAH4	MT29F4G08ABAEAH4-IT
Status <b>Production</b>	<b>Obsolete</b>	<b>Production</b>	<b>Production</b>
Density <b>4Gb</b>	4Gb	4Gb	4Gb
RoHS <b>Yes</b>	Yes	Yes	Yes
Width <b>x8</b>	<b>x16</b>	x8	x8
Voltage <b>3.3V</b>	3.3V	3.3V	3.3V
Package <b>TSOP</b>	<b>VFBGA</b>	<b>VFBGA</b>	<b>VFBGA</b>
Pin Count <b>48-pin</b>	<b>63-ball</b>	<b>63-ball</b>	<b>63-ball</b>
MT/s			
I/O <b>Common</b>	Common	Common	Common
Op Temp <b>0C to +70C</b>	0C to +70C	0C to +70C	<b>-40C to +85C</b>

## Where to Buy

### Orderable Parts

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT29F4G08ABAEAWP:E	<b>Production</b>	N/A	N/A	N/A	N/A	No		N/A

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  - Managed NAND
  - NOR Flash
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