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MT29F4G16ABADAH4-AIT

DATA SHEETS (1)	SPECS	SIM MODELS & SOFTWARE	ROHS CERTIFICATES	DOCUMENTATION & SUPPORT	PARTS WITH THE SAME DATA SHEET (7)	WHERE TO BUY

Data Sheets (1)

Data Sheet 🔓

4Gb, 8Gb x8, x16 Automotive NAND Flash Memory Data Sheet

MT29F4G08ABADAH4-AITX:D, MT29F4G08ABADAWP-AITX:D, MT29F4G08ABBDAH4-AITX:D,
MT29F4G08ABBDAHC-AIT:D, MT29F4G16ABADAH4-AIT:D, MT29F4G16ABADAWP-AIT:D,
MT29F4G16ABBDAH4-AIT:D, MT29F8G16ADBDAH4-AIT:D, MT29F4G08ABADAH4-AATX:D,
MT29F4G08ABADAWP-AATX:D, MT29F4G16ABADAH4-AAT:D, MT29F8G08ADBDAH4-AAT:D

File Type: PDF   **Updated:** 04/2017

Automotive
NAND Flash
SLC NAND

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Specs

Orderable Parts for: MT29F4G16ABADAH4-AIT

SEE ALL SLC NAND PARTS

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT29F4G16ABADAH4-AIT:D	Production	N/A	NQ446	N/A	N/A	No		N/A

Detailed Specifications

Density	4Gb	Status	Production	Width	x16	Voltage	3.3V
Package	VFBGA	Pin Count	63-ball	MT/s		Op Temp	-40C to +85C

Sim Models & Software

Sim Models

HSpice 🔓

HSpice: NAND 4/8/16Gb SLC (Rev D) M60A (ZIP)

Rev. 2.3

File Type: ZIP   Updated: 07/31/2014

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IBIS 🔓

IBIS: NAND 4/8/16Gb SLC (Rev D) M60A (ZIP)

Rev. 2.3

File Type: ZIP   Updated: 07/31/2014

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Software

Software Support Pack

NAND FLASH lockunlock bug fix (ZIP)

Reset NAND before write protect check.

File Type: ZIP   Updated: 03/31/2016

MLC NAND
NAND Flash
SLC NAND

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Software Support Pack

YAFFS mark bad block issue (ZIP)

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

MLC NAND
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Software Support Pack 🔓

NANDcode Flash Translation Layer (ZIP)

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)

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

NAND Flash
SLC NAND

| 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)

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:** 02/2018

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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)   **Updated:** 02/2018

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Documentation & Support

See All SLC NAND Documentation

Technical Notes

[SEARCH (17) SLC NAND TECHNICAL NOTES]

| Technical Notes |

TN-29-62: Software Device Drivers for Large Page Micron NAND Flash Memory Devices (PDF)

NAND Flash
SLC NAND

(TN-29-62) Download the low-level driver described in this document here.

File Type: PDF   **Updated:** 04/24/2017   DOWNLOAD

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   DOWNLOAD

Technical Notes   🔒

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

NAND Flash
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(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   DOWNLOAD

Technical Notes

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

NAND Flash
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(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   DOWNLOAD

Technical Notes

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   DOWNLOAD

SEARCH (17) SLC NAND TECHNICAL NOTES

Parts with the same Data Sheet (7)

	MT29F4G16ABADAH4-AIT (Current)	MT29F4G08ABADAH4-AITX	MT29F4G08ABADAWP-AITX	MT29F4G08ABBDAH4-AITX
Status	Production	Production	Production	Production
Density	4Gb	4Gb	4Gb	4Gb
Width	x16	x8	x8	x8
Voltage	3.3V	3.3V	3.3V	1.8V
Package	VFBGA	VFBGA	TSOP	VFBGA
Pin Count	63-ball	63-ball	48-pin	63-ball
MT/s				
Op Temp	-40C to +85C	-40C to +85C	-40C to +85C	-40C to +85C

Where to Buy

Orderable Parts

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
MT29F4G16ABADAH4-AIT:D	Production	N/A	NQ446	N/A	N/A	No		N/A

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- OR -

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Your Region: Americas

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Financial Services

Industrial Memory Solutions

Mobile Memory Solutions

Networking Innovations

By Application

Client

Cloud

Data Center

Storage Data Security

Enterprise SSD Storage

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