

ALLIANCE MEMORY'S HIGH-PERFORMANCE SLC NAND FLASH SOLUTIONS

Reliable Storage for Industrial, Automotive, and Smart Home Applications

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SERIAL NAND FLASH FEATURES

AS5F Series: 1.8V & 3V SLC Serial peripheral interface (SPI) NAND flash

- ✓ Single Level Cell (SLC) NAND Flash
- ✓ VDD = 1.8V and 3.3V products
- ✓ Supports Standard, Dual & Quad SPI
- ✓ Clock Frequencies up to 120MHz
- ✓ 4bit and 8bit ECC protection
- ✓ OTP Protection
- ✓ Endurance: >60K P/E Cycles
- ✓ Data Retention: >10 Years
- ✓ 8pin LGA (6x8mm) Package

ALLIANCE MEMORY INC



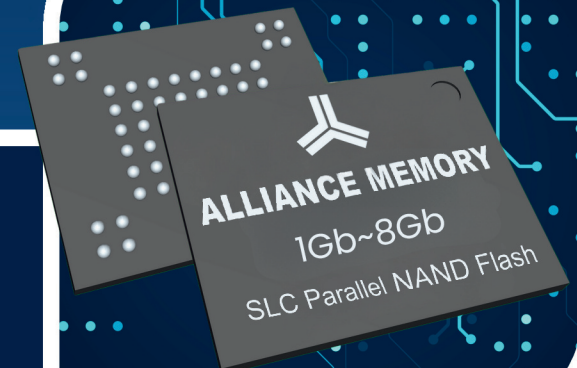
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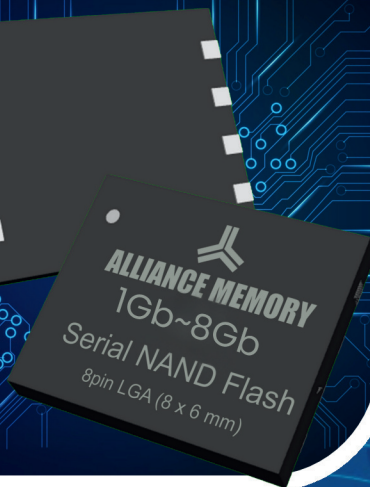


PARALLEL NAND FLASH FEATURES

AS9F Series: 1.8V & 3V SLC Parallel NAND flash

- Single Level Cell (SLC) NAND Flash ✓
- VDD = 1.8V & 3.3V Products ✓
- Bus Widths : x8 ✓
- High Performance PAGE Read / Program / Block Erase ✓
- CACHE READ options ✓
- Hardware Data Protection during power transitions ✓
- ONFI compliant command set ✓
- 100,000 Program / Erase cycles ✓
- 10years Data Retention ✓
- 63ball FBGA (9x11mm) Package ✓
- Both Industrial and Automotive grades operating temperatures ✓

LONGEVITY



SLC PARALLEL NAND FLASH (AS9F) CROSS REFERENCE

Den	Vdd	Temp.	Alliance	Micron	Infineon	Winbond	Macronix	Kioxia	ISSI	GigaDevice
1Gb	3.3V	Ind.	AS9F31G08SA-25BIN	MT29F1G08	S34ML01G	W29N01xV	MX30LF1G	TC58NVG0	IS34ML01G	GD9FUIG8F3AL
2Gb	3.3V	Ind.	AS9F32G08SA-25BIN	MT29F2G08	S34ML02G	W29N02xV	MX30LF2G	TC58NVG1	IS34ML02G	GD9FU2G8F2AL
4Gb	3.3V	Ind.	AS9C34G08SA-25BIN	MT29F4G08	S34ML04G	W29N04xV	MX30LF4G	TC58NVG2	IS34ML04G	GD9FU4G8F2AL
8Gb	3.3V	Ind.	AS9C38G08SA-25BIN	MT29F8G08	S34ML08G	W29N08xV	MX60LF8G	TH58NVG3	IS34ML08G	GD9FU8G8E2AL
4Gb	1.8V	Ind.	AS9F14G08SA-45BIN	MT29F4G08ABB	S34MS04G	W29N04Gx	MX30UF4G	TC58NYG2	IS34MW04G	GD9FS4G8F2AL
8Gb	1.8V	Ind.	AS9F18G08SA-45BIN	MT29F8G08ABB	S34MS08G	W29N08Gx	MX60UF8G	TH58NYG3	IS34MW08G	GD9FS8G8E2AL
4Gb	1.8V	Auto	AS9C14G08SA-45BAN	MT29F4G08ABB	S34MS04G	W29N04Gx			IS35MW04	GD9FS4G8F2AL
8Gb	1.8V	Auto	AS9C18G08SA-45BAN	MT29F8G08ABB	S34MS08G	W29N08Gx				GD9FS8G8E2AL

SLC SERIAL NAND FLASH (AS5F) CROSS REFERENCE

Den	Vdd	Alliance	Kioxia	Micron	Winbond	Macronix	GigaDevices	ISSI
1Gb	3.3V	AS5F31G04SND	TC58CVG0S3HRAIJ	MT29F1G01ABA	W25N01xV	MX35LF1G	GD5FIGxxU	IS37SML01G
2Gb	1.8V	AS5F12G04SND	TC58CYGIS3HRAIJ	MT29F2G01ABB	W25N02xW	MX35UF2G	GD5F2GxxR	IS37SMW02G
2Gb	3.3V	AS5F32G04SND AS5F32G04SNDB	TC58CVGIS3HRAIJ	MT29F2G01ABA	W25M02GV	MX35LF2G	GD5F2GxxU	IS37SML02G
4Gb	1.8V	AS5F14G04SND	TC58CYG2S0HRAIJ	MT29F4G01ABB	W25N04KW	MX35UF4G	GD5F4GxxR	IS37SMW04G
4Gb	3.3V	AS5F34G04SND AS5F34G04SNDB	TC58CVG2S0HRAIJ	MT29F4G01ABA	W25N04KV	MX35LF4G	GD5F4GxxU	IS37SML04G
8Gb	1.8V	AS5F18G04SND	TH58CYG3S0HRAIJ					IS37SMW08G
8Gb	3.3V	AS5F38G04SND	TH58CVG3S0HRAIJ					IS37SML08G

WHY ENGAGE WITH ALLIANCE MEMORY?

- Strong Supply Chain Strategy (Multiple manufacturing sites)
- Balanced Inventory Management (US & Taiwan)
- Competitive and Stable Pricing
- Minimal or No Die Shrinks, Long-term Support
- Improved Lead times on average 4-8 weeks. Industry Best
- Pin-to-pin drop-in replacements to mainstream suppliers
- Quick sample turnaround
- Great customer service and support (Initial Response <24hrs)



FLASH & STORAGE
PRODUCT PORTFOLIO

www.alliancememory.com/flash_storage/

NAND FLASH PROCESSOR COMPATIBILITY

NXP

- i.MX 93x
- i.MX 7
- i.MX 6 / UL
- T102x / 4x
- LS208x
- K20/60/70
- VF6xx
- VF5xx
- VF3xx
- P10xx/20xx
- P50xx
- T42xx

INTEL

- Stratix 10
- Stratix V
- Arria 10
- Arria V
- Cyclone 10
- Cyclone V

XILINX

- Zynq UltraScale+
- Zynq-7000 Soc

TEXAS
INST.

- AM335x
- AM35x
- AM37x
- AM38x
- OMAP35x
- AM17x
- AM18x
- AM5K2Exx
- 66AK2Exx
- 66AK2Gxx
- DRA7x

MicroChip

- SAMA5D3x
- SAMA5D4x
- SAM9X60
- SAM9Gxx
- SAM9X25
- SAM9X35