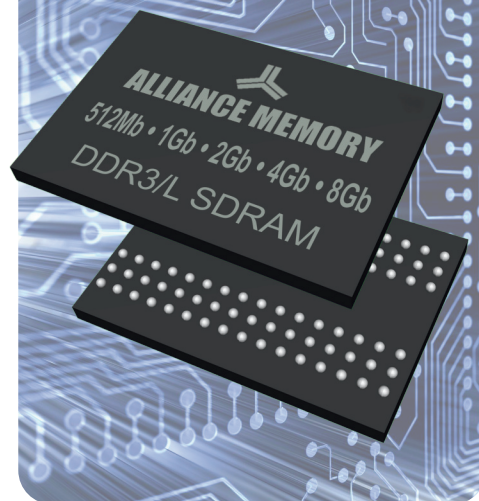




AVAILABLE NOW! DDR3/L SDRAM



DDR3 (1.5V) and DDR3L (1.35V)

SDRAMs includes 512Mb, 1Gb, 2Gb, 4Gb, and 8Gb devices in x8/x16 bus widths, offered in 78-ball and 96-ball FBGA packages across commercial, industrial, and automotive temperature ranges. Offering a double data rate architecture for extremely fast transfer rates of up to 2133Mbps/pin and clock rates of 1066MHz

 Alliance Memory Inc.

 +1(425)898-4456

 info@alliancememory.com

 www.alliancememory.com

FEATURES

DDR3 VDD = VDDQ = 1.5V $\pm 75\text{mV}$

DDR3L VDD = VDDQ = 1.35V +0.1V, -0.067V

DDR3L: Backward compatible to DDR3

JEDEC Standard compliant

Precharge & active power down

Programming Mode & Extended Mode registers

Programmable Burst Lengths 4 or 8

Sequential / Interleave Burst type

Output Drive Impedance control

Write Leveling

ZQ Calibration

Dynamic ODT (Rtt_Nom & Rtt_WR)

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)

PRODUCT PORTFOLIO

Densities	Bus Widths	Packages	Frequency	Data Rate	Temperature
512Mb ~ 8Gb	x8 x16	78-ball FBGA 96-ball FBGA	800 MHz 933 MHz 1066 MHz	1200 Mbps 1866 Mbps 2133 Mbps	0°C to 95°C -40°C to 95°C -40°C to 105°C

CROSS REFERENCES

Density	Alliance	Micron	Samsung	Hynix	Nanya	Winbond	ISSI
512Mb (x8)	AS4C64M8D3						
512Mb (x16)	AS4C32M16D3/L					W6351G6	
1Gb (x8)	AS4C128M8D3LB AS4C128M8D3LC	MT41J/K128M8	K4B1G08	H5TQ/C1G8	NT5CB128M8	W631GG8	IS43/6TR08128
1Gb (x16)	AS4C64M16D3B AS4C64M16D3LB AS4C64M16D3LC	MT41J/K64M16	K4B1G16	H5TQ/C1G6	NT5CB/C64M16	W631GG/U6	IS43/6TR1664
2Gb (x8)	AS4C256M8D3LC	MT41K256M8	K4B2G08	H5TQ2G8	NT5CB256M8	W632GG8	IS43/6TR08256
2Gb (x16)	AS4C128M16D3C AS4C128M16D3LC	MT41J/K128M16	K4B2G16	H5TQ/C2G6	NT5CB/C128M16	W632GG/U6	IS43/6TR16128
4Gb (x8)	AS4C512M8D3LC	MT41K512M8	K4B4G08	H5TQ4G8	NT5CC512M8	W634GU8	IS43/6TR08512
4Gb (x16)	AS4C256M16D3C AS4C256M16D3LC	MT41J/K256M16	K4B4G16	H5TC4G6	NT5CC256T16	W634GG/U6	IS43/6TR16256
8Gb (x8)	AS4C1G8D3LA	MT41K1G8	K4B8G08	H5TC8G8			IS43TR081024
8Gb (x16)	AS4C512M16D3LA AS4C512M16D3B AS4C512M16D3C	MT41K512M16	K4B8G16	H5TC8G6	NT5CC512T16	W638GU6	IS43TR16512

PROCESSOR COMPATIBLE MEMORY INTERFACE

NXP	- i.MX 8M Plus - i.MX 8M Dual/Quad Lite - i.MX 8M Mini/Nano - i.MX 8 Quad X Plus - i.MX7 - i.MX6 Dual / Quad - i.MX6 Solo / UL / ULL - S32V234 - LS1020/21/22 - T1020/22/40/42 - VF 5XX / 6XX - P2021E / 2022 - P2031/2041 - P2080/81 - P408X - P5020/5040 - T4240	MicroChip	- SAMA5D21 - SAMA5D22 - SAMA5D23 - SAMA5D24 - SAMA5D26 - SAMA5D27 - SAMA5D28
INTEL	- Stratix 10 FPGA - Stratix 10 SoC - Stratix V FPGA - Arria 10 FPGA - Arria 10 SoC - Arria V FPGA - Arria V SoC - Cyclone 10 FPGA - Cyclone V FPGA - Cyclone V SoC - MAX 10	Lattice	- ECP5/5G - ECP2/3 - Certus-Nx - CrossLink-NX
XILINX	- Zynq UltraScale+ - Zynq-7000 SoC - Virtex Ultrascale+ - Kintex Ultrascale+ - Virtex Ultrascale - Kintex Ultrascale - Virtex-7 - Kintex-7 - Artix-7 - Spartan-7 - Virtex-6 - Spartan-6 - Virtex-5	Synaptics	88DE3006 - VS-550 - AS-371
TEXAS INSTRUMENTS	- AM335x - AM38x - AM437x - AM57xx - AM5k2EXX 66AK2EXX 66AK2GXX - DRA7X - TDA3X	Renesas	- R-Car V3H2 - R-Car V3H - R-Car V3M - R-Car V2H - R-Car H3/e - R-Car M3/e - R-Car E3/e - R-Car H/M/E2 - R-CAR D3/e - R-CAR D1

LONGEVITY

