

Allwinner V833 SDRAM Support List

General Description:

1. The purpose of this document is the guide of DDR selection for customer using our solution.
2. There are some DDRs that not mentioned here. Since DDR is an universal device. So you can test it by yourself before mass production or send the sample to us for testing.
3. Since DDR is high speed device. Please directly copy AW PCB\DRAM Part Template and follow our PCB Layout Guide.

Abbr. and Definition of Status:

Symbol	Definition
X	Do Not Support
D/S	Datasheet Support
S/T	Sample Tested
✓	Sample Tested and Mass Production
NOTE	Part Number 标暗灰代表 EOL

Abbr.	Definition
STA	test status
freq	max frequency for MP. 'c' means compatible template

Vendor	Part Number	Type	package	Density	Organization	V833		Remark								
						STA	freq									
Hynix	H5TQ2G83FFR-xxC	DDR3	FBGA 78	2Gb	256Mx8											
	H5TQ2G63FFR-xxC	DDR3	FBGA 96	2Gb	128Mx16											
	H5TQ4G83AFR-xxC	DDR3	FBGA 78	4Gb	512Mx8											
	H5TQ4G63AFR-xxC	DDR3	FBGA 96	4Gb	256Mx16											
	H5TQ4G63AFR-RDC	DDR3	FBGA 96	4Gb	256Mx16											
	H5TQ4G63EFR-RDC	DDR3	FBGA 96	4Gb	256Mx16	S/T	792									
	H5TQ4G63EFR-TEC	DDR3	FBGA 96	4Gb	256Mx16											
	H5TC2G83FFR-xxA	DDR3L	FBGA 78	2Gb	256Mx8											
	H5TC2G63FFR-xxA	DDR3L	FBGA 96	2Gb	128Mx16											
	H5TC4G83AFR-xxA	DDR3L	FBGA 78	4Gb	512Mx8											
	H5TC4G63AFR-xxA	DDR3L	FBGA 96	4Gb	256Mx16											
	H5TC2G63FFR-xxR	DDR3L-RS	FBGA 96	2Gb	128Mx16											
	H5TC4G83AFR-xxR	DDR3L-RS	FBGA 78	4Gb	512Mx8											
	H5TC4G63AFR-xxR	DDR3L-RS	FBGA 96	4Gb	256Mx16											
	H5TC4G63CFR-PBA	DDR3L	FBGA 96	4Gb	256Mx16											
	H5TQ4G63CFR-RDC	DDR3	FBGA 96	4Gb	256Mx16											
	H5TQ2G63GFR-RDC	DDR3	FBGA 96	2Gb	128Mx16											
	H5TC2G63GFR-PBA	DDR3L	FBGA 96	2Gb	128Mx16											
	H5TC8G63CMR-PBA	DDR3L	FBGA 96	8Gb	256Mx16x2CS											
	H9CCNNN8JTALAR-NTD	LPDDR3	FBGA 178	8Gb	128Mx32x2CS											
	H9CCNNNBLTALAR-NTM	LPDDR3	FBGA 178	16Gb	256Mx32x2CS											
	H9CKNNN8GTMLR-NUH	LPDDR3	POP 168	8Gb	128Mx32x2CS											
	H9CCNNN8JTMLAR-NUM	LPDDR3	FBGA 178	8Gb	128Mx32x2CS											
	H9CCNNNBJTMLAR-NUM	LPDDR3	FBGA 178	16Gb	256Mx32x2CS											
	H9CCNNN8GTMLAR-NUM	LPDDR3	FBGA 178	8Gb	128Mx32x2CS											
	H5TQ4G83CFR-RDC	DDR3	FBGA 78	4Gb	512Mx8											
	H5TQ4G83AFR-PBC	DDR3	FBGA 78	4Gb	512Mx8											
	H5TC4G63EFR-RDF	DDR3L	FBGA 96	4Gb	256Mx16											
	H5TC4G63EFR-RDA	DDR3	FBGA 96	4Gb	256Mx16	S/T	792									
	H5TQ4G63EFR-RDC	DDR3	FBGA 96	4Gb	256Mx16											
	H5AN4G6NAFR-UHC	DDR4	FBGA 96	4Gb	256Mx16											



	H5AN4G6NBJR-UHC	DDR4	FBGA 96	4Gb	256Mx16								
	H5AN4G6NBJR-VKC	DDR4	FBGA 96	4Gb	256Mx16								
	H5AN8G6NAFR-UHC	DDR4	FBGA 96	8Gb	512Mx16								
Nanya (南亚)	NT6CL128M32BM-H2	LPDDR3	FBGA 178	4Gb	128Mx32x1CS								
	NT6CL256T32BM-H2	LPDDR3	FBGA 178	8Gb	128Mx32x2CS								
	NT6CL256T32CM-H1	LPDDR3	FBGA 178	8Gb	128Mx32x2CS								
	NT6CL256T32BQ-H2	LPDDR3	POP 168	8Gb	128Mx32x2CS								
	NT6CL128M32BQ-H2	LPDDR3	POP 168	4Gb	128Mx32x1CS								
	NT5CC256M16DP-DI	DDR3L	FBGA 96	4Gb	256Mx16								
	NT5CC128M16IP-DI	DDR3L	FBGA 96	2Gb	128Mx16								
	NT6TL256T32AQ-G1	LPDDR2	POP 168	8Gb	128Mx32x2CS								
	NT6TL128M32AQ-G0	LPDDR2	POP 168	4Gb	128Mx32x1CS								
	NT5CC64M16GP-DI	DDR3L	FBGA 96	1Gb	64Mx16								
	NT5CB64M16GP-EK	DDR3	FBGA 96	1Gb	64Mx16								
	NT6TL128M32BQ-G0	LPDDR2	POP 168	4Gb	128Mx32x1CS								
	NT6TL256T32BQ-G0	LPDDR2	POP 168	8Gb	128Mx32x2CS								
	NT6TL256T32AQ-G0	LPDDR2	POP 168	8Gb	128Mx32x2CS								
	NT5CC256M16EP-DI	DDR3L	FBGA 96	4Gb	256Mx16								
	NT5CC256M16EP-EK	DDR3L	FBGA 96	4Gb	256Mx16								
	NT5CB256M16EP-FL	DDR3	FBGA 96	4Gb	256Mx16								
	NT5CC512M8EN-DI	DDR3L	FBGA 78	4Gb	512Mx8								
	NT5CC512M8EN-EK	DDR3L	FBGA 78	4Gb	512Mx8								
	NT5CB512M8EN-FL	DDR3	FBGA 78	4Gb	512Mx8								
	NT5CB256M16DP-EK	DDR3	FBGA 96	4Gb	256Mx16								
	NT5CC256M16DP-DII	DDR3L	FBGA 96	4Gb	256Mx16								
	NT5CC256M8IN-DI	DDR3L	FBGA 78	2Gb	256Mx8								
	NT5AD256M16B2-HP	DDR4	FBGA 96	4Gb	256Mx16								
	NT5AD256M16B2-GN	DDR4	FBGA 96	4Gb	256Mx16								
	NT5CC256M16DP-DIA(车规)	DDR3	FBGA 96	4Gb	256Mx16								
	NT5CC128M16IP-DII	DDR3	FBGA 96	2Gb	128Mx16								
	NT5CC128M16IP-DIA	DDR3	FBGA 96	2Gb	128Mx16								
	NT5CC128M16IP-DIT	DDR3	FBGA 96	2Gb	128Mx16								
	NT5AD512M16A4-HR	DDR4	FBGA 96	8Gb	512Mx16								
	NT5AD256M16D4-HR	DDR4	FBGA 96	8Gb	512Mx16								
	NT5CC128M16JR-EK	DDR3	FBGA 96	2Gb	128Mx16								
	NT5CC256M16ER-EK	DDR3	FBGA 96	4Gb	256Mx16								
NT5CC256M16ER-EKI	DDR3	FBGA 96	4Gb	256Mx16									
NT5CB256M16ER-FL	DDR3	FBGA 96	4Gb	256Mx16									
NT5CC256M8JQ-EKT	DDR3	FBGA 78	2Gb	256Mx8									
NT5CC512M8EQ-EK	DDR3	FBGA 78	4Gb	512Mx8									
	MT41K256M8DA-125	DDR3L	FBGA 78	2Gb	256Mx8								
	MT41K128M16JT-125	DDR3L	FBGA 96	2Gb	128Mx16								
	MT41K128M16JT-107	DDR3L	FBGA 96	2Gb	128Mx16								
	MT41J128M16JT-125	DDR3	FBGA 96	2Gb	128Mx16								
	MT41J128M16JT-107	DDR3	FBGA 96	2Gb	128Mx16								
	MT41K128M16JT-107K (D9PSZ)	DDR3	FBGA 96	2Gb	128Mx16								



Micron	MT41K256M16TW-107	DDR3L	FBGA 96	4Gb	256Mx16								
	MT41K256M16TW-107P (D9SHD)	DDR3L	FBGA 96	4Gb	256Mx16	S/T	792						
	MT41K256M16TW-107 AATP(车规)	DDR3L		4Gb	256Mx16	S/T	792						
	MT41K512M8RH-125	DDR3L	FBGA 78	4Gb	512Mx8								
	MT41K512M16HA-125	DDR3L	FBGA 96	8Gb	512Mx16								
	EDB8132B4PM-1D-F-D	LPDDR2	POP168	4Gb	128Mx32								
	EDB4432BBPA-1D-F-D	LPDDR2	POP168	8Gb	128Mx32x2CS								
	MT52L256M32D1PF-107	LPDDR3	FBGA 178	8Gb	256Mx32x1CS								
	MT52L512M32D2PF-107	LPDDR3	FBGA 178	16Gb	256Mx32x2CS								
	MT40A512M16JY-083E	DDR4	FBGA 96	8Gb	512Mx16								
MT40A256M16GE-083E	DDR4	FBGA 96	4Gb	256Mx16									
SAMSUNG	K4B2G1646Q-BCK0	DDR3	FBGA 96	2Gb	128Mx16								
	K4B2G1646F-BYMA	DDR3L	FBGA 96	2Gb	128Mx16	S/T	792						
	K4B4G1646Q-HYK0	DDR3L	FBGA 96	4Gb	256Mx16								
	K4B4G1646E-BCMA	DDR3	FBGA96	4Gb	256Mx16	S/T	792						
	K4B2G0846Q-BCK0	DDR3	FBGA 78	2Gb	256Mx8								
	K4B4G1646E-BYK0	DDR3L	FBGA 96	4Gb	256Mx16								
	K4B4G1646E-BMK0	DDR3L	FBGA 96	4Gb	256Mx16								
	K4B4G1646D-BMK0	DDR3L	FBGA 96	4Gb	256Mx16	S/T	792						
	K4B1G1646I-BCMA	DDR3	FBGA96	1Gb	64Mx16	S/T	792						
	K4B4G1646D-BCK0	DDR3	FBGA96	4Gb	256Mx16								
	K4B4G1646D-BFMA	DDR3	FBGA96	4Gb	256Mx16								
	K4E6E304EB-EGCF	LPDDR3	FBGA 178	16Gb	256Mx32x2CS								
	K4E8E324EB-EGCF	LPDDR3	FBGA 178	8Gb	256Mx32x1CS								
	K4A4G165WE-BCRC	DDR4	FBGA 96	4Gb	256Mx16								
	K4A8G165WB-BCRC	DDR4	FBGA 96	8Gb	512Mx16								
K4A4G165WE-BCWE	DDR4	FBGA 96	4Gb	256Mx16									
K4E4E324EE-EGCE	LPDDR3	FBGA178	4Gb	128Mx32									
Kingston (金士顿)	D1216ECMDXGJD	DDR3L	FBGA 96	2Gb	128Mx16								
ESMT	M15T1G1664A-DEBG2CS	DDR3L	FBGA 96	1Gb	64Mx16	S/T	792						
Etron (钰创)	EM6GE16EW5B-15H	DDR3	FBGA 96	4Gb	256Mx16								
	EM6GD08EWUA-15H	DDR3	FBGA 78	2Gb	256Mx8								
	EM6GD08EWUA-12H	DDR3	FBGA 78	2Gb	256Mx8								
	EM6GD08EWUG-12H	DDR3	FBGA 78	2Gb	256Mx8								
	EM6GD16EWBH-10H	DDR3	FBGA 96	2Gb	128Mx16	S/T	792						
	EM6GD16EWXC-12H	DDR3	FBGA 96	2Gb	128Mx16								
	EM6GE16EWXC-12H	DDR3	FBGA 96	4Gb	256Mx16								
	EM6GD08EWUC-12H	DDR3	FBGA 78	2Gb	256Mx8								
	EM6GE08EW8C-12H	DDR3	FBGA 78	4Gb	512Mx8								
	EM6GE16EWXD-12H	DDR3	FBGA 96	4Gb	256Mx16								
	EM6GD16EWKG-12H	DDR3	FBGA 96	2Gb	128Mx16								
	EM6GE16EWXD-10H	DDR3	FBGA 96	4Gb	256Mx16								
	EM6GC16EWXC-12H	DDR3	FBGA 96	1Gb	64Mx16								
	EM6GC16EWKG-10H	DDR3	FBGA 96	1Gb	64Mx16	S/T	792						



	EM6GC16EWKG-12H	DDR3	FBGA 96	1Gb	64Mx16								
	EM6HE16EWAKG-10H	DDR3L	FBGA 96	4Gb	256Mx16	S/T	792						
FORESEE (江波龙)	F60C1A0002-M6	DDR3L	FBGA 96	2Gb	128Mx16	S/T	792						
	F60C1A0004-M7	DDR3L	FBGA 96	4Gb	256Mx16	S/T	792						
SCSemicon (华芯)	HXB15H2G800BF-15H	DDR3	FBGA 78	2Gb	256Mx8								
	HXB15H2G160BF-15H	DDR3	FBGA 96	2Gb	128Mx16								
	HXB15H4G160BF-15H	DDR3	FBGA 96	4Gb	256Mx16								
	HXB15H4G800BF-15H	DDR3	FBGA 78	4Gb	512Mx8								
	HXB15H4G800AF-15H	DDR3	FBGA 78	4Gb	512Mx8								
	HXB13H4G160BF(L)-13K	DDR3L	FBGA 96	4Gb	256Mx16								
	HXB15H2G800BF-13K	DDR3	FBGA 78	2Gb	256Mx8								
	HXB15H2G160BF-13K	DDR3	FBGA 96	2Gb	128Mx16								
	HXB15H4G160AF-13K	DDR3	FBGA 96	4Gb	256Mx16								
	HXB15H4G160CF-13K	DDR3	FBGA 96	4Gb	256Mx16								
	HXB13H4G160AF-13KT	DDR3L	FBGA 96	4Gb	256Mx16								
	HXI15H4G160AF-13K	DDR3	FBGA 96	4Gb	256Mx16								
HXB15H4G160AF-11M	DDR3	FBGA 96	4Gb	256Mx16									
PI (补丁)	PMF511808DBR-KADN	DDR3	FBGA 78	2Gb	256Mx8								
	PMF512816BBR-KADN	DDR3	FBGA 96	4Gb	256Mx16								
	PMF511808BBR	DDR3	FBGA 78	2Gb	256Mx8								
	PMF510816CBR-KADC	DDR3	FBGA 96	1Gb	64Mx16								
	PMF510816DBR-MBDN	DDR3	FBGA 96	1Gb	64Mx16								
	PMF512816CBR-KAIN	DDR3	FBGA 96	4Gb	256Mx16								
	PMF512816CBR-KADN	DDR3	FBGA 96	4Gb	256Mx16								
	PMF512816DBR-KADN	DDR3	FBGA 96	4Gb	256Mx16								
	PMF512808CBR-KADN	DDR3	FBGA 78	4Gb	512Mx8								
	PMF511808EBR-MBDN	DDR3	FBGA 78	4Gb	512Mx8								
	PMF511816GBR-MBDN	DDR3	FBGA 96	2Gb	128Mx16								
eorex (森富)	EM47DM0888SBA-150	DDR3	FBGA 78	1Gb	128Mx8								
	EM47EM0888SBA-150	DDR3	FBGA 78	2Gb	256Mx8								
	EM47CM1688SBB-150	DDR3	FBGA 96	1Gb	64Mx16								
	EM47EM1688SBA-150	DDR3	FBGA 96	4Gb	256Mx16								
	EM47EM3288SBA-150	DDR3	FBGA136	8Gb	256Mx32								
	EM47CM1688SBB-125A	DDR3	FBGA 96	1Gb	64Mx16								
	EM47EM1688SBB-150A	DDR3	FBGA 96	4Gb	256Mx16								
	EM47EM1688SBB-125A	DDR3	FBGA 96	4Gb	256Mx16								
	EM47FM1688MCA-150A	DDR3	FBGA 96	8Gb	256Mx16x2CS								
紫光国芯 uniic	SCB15H2G160AF-13KA3	DDR3	FBGA 96	2Gb	128Mx16								
	SCB15H2G160AF-13KI	DDR3	FBGA 96	2Gb	128Mx16								
	SCN13H2G160AF-13K	DDR3	FBGA 96	2Gb	128Mx16								
	SCB13H4G160AF-11M	DDR3L	FBGA 96	4Gb	256Mx16								



Zentel	A3T4GF40ABF-HP	DDR3	FBGA 96	4Gb	256Mx16								
	A3T2GF40ABF-HPPZ	DDR3	FBGA 96	2Gb	128Mx16								
	A3T2GF40ABF-GMPZ	DDR3	FBGA 96	2Gb	128Mx16								
	A3T1GF40CBF-HP	DDR3	FBGA 96	1Gb	64Mx16								
	A3T1GF40CBF-GML	DDR3	FBGA 96	1Gb	64Mx16								
	A3T1GF40CBF-GM	DDR3	FBGA 96	1Gb	64Mx16								
	A3T4GF30ABF-GM	DDR3	FBGA 78	4Gb	512Mx8								
ArtMem 妙存	AW52A8G32-12D2LP25CS	LPDDR3	FBGA 178	8Gb	128Mx32x2CS								
	AWL3A1632-12D2LK35CS	LPDDR3	FBGA 178	16Gb	256Mx32x2CS								
Sinkers	SNB2816S16NS24	DDR3L	FBGA 96	2Gb	128Mx16								
	SNB6416S16NS24	DDR3L	FBGA 96	1Gb	64Mx16	X							