Allwinner Technology CO., Ltd.

Allwinner H6 SDRAM Support List

General Description:

1.The purpose of this document is the guide of DDR seclection 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

3. Since DDR is high speed device. Please directly copy AW PCB DRAM Part Template and follow our PCB Layout Gu

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

Vendor	Part Number	Type	package	Density	Organization	H6 STA	H6 freq
	H5TQ2G83CFR-xxC	DDR3	FBGA 78	2Gb	256Mx8		
	H5TQ2G83DFR-xxC	DDR3	FBGA 78	2Gb	256Mx8		
	H5TQ2G63DFR-xxC	DDR3	FBGA 96	2Gb	128Mx16		
	H5TQ2G83EFR-xxC	DDR3	FBGA 78	2Gb	256Mx8		
	H5TQ2G83FFR-xxC	DDR3	FBGA 78	2Gb	256Mx8		
	H5TQ2G63FFR-xxC	DDR3	FBGA 96	2Gb	128Mx16		
	H5TQ4G83MFR-xxC	DDR3	FBGA 78	4Gb	512Mx8		
	H5TQ4G63MFR-xxC	DDR3	FBGA 96	4Gb	256Mx16		
	H5TQ4G83AFR-xxC	DDR3	FBGA 78	4Gb	512Mx8		
	H5TQ4G63AFR-xxC	DDR3	FBGA 96	4Gb	256Mx16		
	H5TQ4G63AFR-RDC	DDR3	FBGA 96	4Gb	256Mx16		
	H5TC2G83EFR-xxA	DDR3L	FBGA 78	2Gb	256Mx8		
	H5TQ4G63EFR-RDC	DDR3	FBGA 96	4Gb	256Mx16		
	H5TQ4G63EFR-TEC	DDR3	FBGA 96	4Gb	256Mx16	S/T	840

	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		
	H5TC4G83BFR-PBA	DDR3L	FBGA 78	4Gb	512Mx8		
	H5TC2G83EFR-xxR	DDR3L-RS	FBGA 78	2Gb	256Mx8		
	H5TC2G63DFR-xxR	DDR3L-RS	FBGA 96	2Gb	128Mx16		
	H5TC2G63FFR-xxR	DDR3L-RS	FBGA 96	2Gb	128Mx16		
	H5TC4G83AFR-xxR	DDR3L-RS	FBGA 78	4Gb	512Mx8		
Hynix	H5TC4G63AFR-xxR	DDR3L-RS	FBGA 96	4Gb	256Mx16		
	H5TC8G63AMR-PBA	DDR3L	FBGA 96	8Gb	256Mx16x2CS	S/T	840
	H5TC8G83AMR-PBA	DDR3L	FBGA 78	8Gb	512Mx8x2CS		
	H5TC4G63CFR-PBA	DDR3L	FBGA 96	4Gb	256Mx16		
	H5TQ4G63CFR-RDC	DDR3	FBGA 96	4Gb	256Mx16	S/T	840
	H5TQ2G63GFR-RDC	DDR3	FBGA 96	2Gb	128Mx16		
	H5TC2G63GFR-PBA	DDR3L	FBGA 96	2Gb	128Mx16		
	H9TKNNN8JDAPLR-NGN	LPDDR2	POP 168	8Gb	128Mx32x2CS		
	H9CCNNN8JTALAR-NTD	LPDDR3	FBGA 178	8Gb	128Mx32x2CS		
	H9CCNNNBLTALAR-NTM	LPDDR3	FBGA 178	16Gb	256Mx32x2CS		
	H9CKNNN8GTMPLR-NUH	LPDDR3	POP 168	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		
	H5AN8G6NAFR-UHC	DDR4	FBGA 96	8Gb	512Mx16	S/T	912
	NT5CB128M8DN-xx	DDR3	FBGA 78	1Gb	128Mx8		
	NT5CB256M8GN-xx	DDR3	FBGA 78	2Gb	256Mx8		
	NT5CB256M8FN-xx	DDR3	FBGA 78	2Gb	256Mx8		
	NT5CB128M16HP-xx	DDR3	FBGA 96	2Gb	128Mx16		
	NT5CB128M16FP-xx	DDR3	FBGA 96	2Gb	128Mx16		
	NT5CB256M16BP-xx	DDR3	FBGA 96	4Gb	256Mx16		
	NT5CC512M8CN-xx	DDR3L	FBGA 78	4Gb	512Mx8		
	NT5CC256M16CP-xx	DDR3L	FBGA 96	4Gb	256Mx16		
	NT5CC256M16CP-DI	DDR3L	FBGA 96	4Gb	256Mx16		
	NT6CL128M32BM-H2	LPDDR3	FBGA 178	4Gb	128Mx32x1CS		

Nanya（南亚）	NT6CL256T32BM-H2	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		
	NT5CB64M16FP-DH	DDR3	FBGA 96	1Gb	64Mx16		
	NT6TL256T32AQ-G1	LPDDR2	POP 168	8Gb	128Mx32x2CS		
	NT6TL128M32AQ-G0	LPDDR2	POP 168	4Gb	128Mx32x1CS		
	NT5CC64M16GP-DI	DDR3L	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	S/T	840
	NT5CB256M16EP-FL	DDR3	FBGA 96	4Gb	256Mx16	S/T	840
	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		
	NT5CC512M8IN-DI	DDR3L	FBGA 78	4Gb	512Mx8		
	NT5AD256M16B2-GN	DDR4	FBGA 96	4Gb	256Mx16	S/T	912
	NT5CC256M16DP-DIA	DDR3	FBGA 96	4Gb	256Mx16		
	NT5CC128M16IP-DII	DDR3	FBGA 96	2Gb	128Mx16		
Elpida	EDJ2108BDBG-DJ-F	DDR3	FBGA 78	2Gb	256Mx8		
	EDJ4216EFBG-GN-F	DDR3	FBGA 96	4Gb	256Mx16		
	EDJ4208EFBG-GNL-F	DDR3L	FBGA 78	4Gb	512Mx8		
	EDJ4208EFBG-GN-F	DDR3	FBGA 78	4Gb	512Mx8		
	EDJ4216EFBG-GNL-F	DDR3L	FBGA 96	4Gb	256Mx16		
	J2108DEBG-DJ-F	DDR3	FBGA 78	2Gb	256Mx8		
	EDB8132B3MC-8D-F	LPDDR2		8Gb	128Mx32x2CS		
	EDB8132B2MA-8D-F	LPDDR2		8Gb	128Mx32x2CS		
	EDFA232A1MA-GD-F	LPDDR3		16Gb	256Mx32x2CS		

Micron	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		
	MT41K256M16HA-125	DDR3L	FBGA 96	4Gb	256Mx16		
	MT41K256M16TW-107	DDR3L	FBGA 96	4Gb	256Mx16	S/T	840
	MT41K512M8RH-125	DDR3L	FBGA 78	4Gb	512Mx8		
	MT41J256M8HX-15	DDR3	FBGA 78	2Gb	256Mx8		
	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		
SAMSUNG	K4B4G1646B-HCK0	DDR3	FBGA 96	4Gb	256Mx16		
	K4B2G1646E-BCK0	DDR3	FBGA 96	2Gb	128Mx16		
	K4B2G0846D-HCK0	DDR3	FBGA 78	2Gb	256Mx8		
	K4B2G1646Q-BCK0	DDR3	FBGA 96	2Gb	128Mx16		
	K4B4G1646Q-HYK0	DDR3L	FBGA 96	4Gb	256Mx16		
	K4B4G1646E-BCMA	DDR3	FBGA96	4Gb	256Mx16	S/T	840
	K4B2G0846Q-BCK0	DDR3	FBGA 78	2Gb	256Mx8		
	K4B4G1646E-BYK0	DDR3L	FBGA 96	4Gb	256Mx16		
	K4B4G1646E-BMK0	DDR3L	FBGA 96	4Gb	256Mx16		
	K4B8G1646Q-MYK0	DDR3L	FBGA96	8Gb	256Mx16x2CS		
	K4B4G1646D-BMK0	DDR3L	FBGA 96	4Gb	256Mx16		
	K4B4G1646D-BCK0	DDR3	FBGA96	4Gb	256Mx16		
	K4E8E304ED-EGCF	LPDDR3	FBGA 178	8Gb	128Mx32x2CS		
	K4E8E304ED-EGCE	LPDDR3	FBGA 178	8Gb	128Mx32x2CS		
	K4E8E304ED-EGCC	LPDDR3	FBGA 178	8Gb	128Mx32x2CS		
	K4E4E324ED-EGCF	LPDDR3	FBGA 178	4Gb	128Mx32x1CS		
	K4E4E324ED-EGCC	LPDDR3	FBGA 178	4Gb	128Mx32x1CS		
	K4E6E304EB-EGCF	LPDDR3	FBGA 178	16Gb	256Mx32x2CS		
	K4E8E324EB-EGCF	LPDDR3	FBGA 178	8Gb	256Mx32x1CS		
	K4E8E304EE-EGCE	LPDDR3	FBGA 178	8Gb	128Mx32x2CS		
	K4E6E304EE-EGCE	LPDDR3	FBGA 178	16Gb	256Mx32x2CS		

	Part Number	Type	Package	Density	Configuration		
	K4E8E304EE-AGCE	LPDDR3	POP 168	8Gb	128Mx32x2CS		
	K4E4E164EB-EGCE	LPDDR3	FBGA 178	4Gb	128Mx32x1CS		
	K4P8G304EG-AGC2	LPDDR2	POP 168	8Gb	128Mx32x2CS		
	K4P8G304EQ-AGC2	LPDDR2	POP 168	8Gb	128Mx32x2CS		
	K4A8G165WB-BCRC	DDR4	FBGA 96	8Gb	512Mx16	S/T	912
Kingston（金士顿）	D2516EC4BXGGB	DDR3L	FBGA 96	4Gb	256Mx16	S/T	792
	D2516JC4BXGJD	DDR3	FBGA 96	4Gb	256Mx16	S/T	840
PSC/Mira (力晶)	P3P4GF3BLF-GGN	DDR3	FBGA 78	4Gb	512Mx8		
	P3P4GF4BLF-GGN	DDR3	FBGA 96	4Gb	256Mx16		
	P3P4GF4BLF-GDJ	DDR3	FBGA 96	4Gb	256Mx16		
	P3P4GF4BLF-GJS	DDR3	FBGA 96	4Gb	256Mx16	S/T	840
	P3P2GF3BLF-AGGN	DDR3	FBGA 78	2Gb	256Mx8		
	P3P4GF3DMF-GJS	DDR3	FBGA 78	4Gb	512Mx8		
	P3P4GF4DMF-GJS	DDR3	FBGA 96	4Gb	256Mx16	S/T	840
Etron（钰创）	EM6GE16EW5B-15H	DDR3	FBGA 96	4Gb	256Mx16		
	EM6GD08EWUA-15H	DDR3	FBGA 78	2Gb	256Mx8		
	EM6GD08EWUA-12H	DDR3	FBGA 78	2Gb	256Mx8		
	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	S/T	840
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	S/T	840
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		
	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		
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		
GT（创芯）	GT8UB128M16HP	DDR3	FBGA 96	2Gb	128Mx16		
	GT8UB128M16BP	DDR3	FBGA 96	2Gb	128Mx16		
	GT8UB256M16BP	DDR3	FBGA 96	4Gb	256Mx16		
	GT8UB256M8EN-BG	DDR3	FBGA 78	2Gb	256Mx8		
	GT8UB512M8EN-BG	DDR3	FBGA 78	4Gb	512Mx8		
EG	EG1L256M88BA12LH	DDR3	FBGA 78	2Gb	256Mx8		
Elixir	N2CB2G80GN	DDR3	FBGA 78	2Gb	256Mx8		
	N2CB4G16CP-DI	DDR3	FBGA 96	4Gb	256Mx16		

晶豪科技 ESMT	M15F4G16256A-DEBG	DDR3	FBGA 96	4Gb	256Mx16		
华聆 Axeme	H2A402G1666BFBC	DDR3	FBGA 96	2Gb	128Mx16		
GCAI	GDB41A32ED7-D1S	LPDDR2	POP 168	4Gb	128Mx32x1CS		
	GDB42A32ED7-D1S(25nm)	LPDDR2	POP 168	8Gb	128Mx32x2CS		
	GDB42A32ED7-D1S(30nm)	LPDDR2	POP 168	8Gb	128Mx32x2CS		
FORSEE	LD3E508G	LPDDR3	POP 168	8Gb	128Mx32x2CS		
	NCLD3B2256M32	LPDDR3	FBGA 178	8Gb	128Mx32x2CS		
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		
Zentel	A3T4GF40ABF-HP	DDR3	FBGA 96	4Gb	256Mx16		
	A3T2GF40ABF-HPPZ	DDR3	FBGA 96	2Gb	128Mx16		
	A3T2GF40ABF-GMPZ	DDR3	FBGA 96	2Gb	128Mx16		
	A3T4GF30ABF-GM	DDR3	FBGA 78	4Gb	512Mx8		