Allwinner Technology CO., Ltd.

Allwinner A31(s) 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 testing.

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

Abbr. and Definition of Status:

Abbr.	Definition
X	Do Not Support
N/T	Not Tested and Uncertain
D/S	Datasheet Support
S/T	Sample Tested
√	Sample Tested and Mass Production

Vendor	Part Number	Type	Density	Organization	Status (A31)	Status (A31s)
Hynix	H5TQ2G83CFR-xxC	DDR3	2Gb	256Mx8	√	√
	H5TQ2G83DFR-xxC	DDR3	2Gb	256Mx8	√	√
	H5TQ2G63DFR-xxC	DDR3	2Gb	128Mx16	D/S	D/S
	H5TQ2G83EFR-xxC	DDR3	2Gb	256Mx8	√	√
	H5TQ2G83FFR-xxC	DDR3	2Gb	256Mx8	D/S	D/S
	H5TQ2G63FFR-xxC	DDR3	2Gb	128Mx16	S/T	S/T
	H5TQ4G83MFR-xxC	DDR3	4Gb	512Mx8	D/S	D/S
	H5TQ4G63MFR-xxC	DDR3	4Gb	256Mx16	S/T	S/T
	H5TQ4G83AFR-xxC	DDR3	4Gb	512Mx8	S/T	S/T
	H5TQ4G63AFR-xxC	DDR3	4Gb	256Mx16	√	√
	H5TC2G83EFR-xxA	DDR3L	2Gb	256Mx8	D/S	D/S
	H5TC2G83FFR-xxA	DDR3L	2Gb	256Mx8	D/S	D/S
	H5TC2G63FFR-xxA	DDR3L	2Gb	128Mx16	S/T	S/T
	H5TC4G83AFR-xxA	DDR3L	4Gb	512Mx8	D/S	D/S
	H5TC4G63AFR-xxA	DDR3L	4Gb	256Mx16	S/T	S/T
	H5TC2G83EFR-xxR	DDR3L-RS	2Gb	256Mx8	D/S	D/S
	H5TC2G63DFR-xxR	DDR3L-RS	2Gb	128Mx16	D/S	D/S
	H5TC2G63FFR-xxR	DDR3L-RS	2Gb	128Mx16	D/S	D/S
	H5TC4G83AFR-xxR	DDR3L-RS	4Gb	512Mx8	D/S	D/S

	H5TC4G63AFR-xxR	DDR3L-RS	4Gb	256Mx16	D/S	D/S
	H5TC8G63AMR-PBA	DDR3L	8Gb	256Mx16x2CS	D/S	D/S
	H5TC8G83AMR-PBA	DDR3L	8Gb	512Mx8x2CS	D/S	D/S
	H9TKNNN8JDAPLR-NGN	LPDDR2	8Gb	128Mx32x2CS	D/S	D/S
	H9CCNNN8JTALAR-NTD	LPDDR3	8Gb	128Mx32x2CS	D/S	D/S
Nanya（南亚）	NT5CB128M8DN-xx	DDR3	1Gb	128Mx8	D/S	D/S
	NT5CB256M8GN-xx	DDR3	2Gb	256Mx8	S/T	S/T
	NT5CB256M8FN-xx	DDR3	2Gb	256Mx8	S/T	S/T
	NT5CB128M16HP-xx	DDR3	2Gb	128Mx16	S/T	S/T
	NT5CB128M16FP-xx	DDR3	2Gb	128Mx16	D/S	D/S
	NT5CB256M16BP-xx	DDR3	4Gb	256Mx16	S/T	S/T
	NT5CC512M8CN-xx	DDR3L	4Gb	512Mx8	S/T	S/T
	NT5CC256M16CP-xx	DDR3L	4Gb	256Mx16	S/T	S/T
	NT5CC256M16CP-DI	DDR3L	4Gb	256Mx16		
Elpida	EDJ2108BDBG-DJ-F	DDR3	2Gb	256Mx8	D/S	D/S
	EDJ4216EFBG-GN-F	DDR3	4Gb	256Mx16	S/T	S/T
	EDJ4208EFBG-GNL-F	DDR3L	4Gb	512Mx8	S/T	S/T
	EDJ4208EFBG-GN-F	DDR3	4Gb	512Mx8	S/T	S/T
	EDJ4216EFBG-GNL-F	DDR3L	4Gb	256Mx16	S/T	S/T
	J2108DEBG-DJ-F	DDR3	2Gb	256Mx8	D/S	D/S
	EDB8132B3MC-8D-F	LPDDR2	8Gb	128Mx32x2CS	S/T	S/T
	EDB8132B2MA-8D-F	LPDDR2	8Gb	128Mx32x2CS	D/S	D/S
	EDFA232A1MA-GD-F	LPDDR3	16Gb	256Mx32x2CS	D/S	D/S
Micron	MT41K256M8DA-125	DDR3L	2Gb	256Mx8	D/S	D/S
	MT41K128M16JT-125	DDR3L	2Gb	128Mx16	S/T	S/T
	MT41J128M16JT-107	DDR3	2Gb	128Mx16	S/T	S/T
	MT41K256M16HA-125	DDR3L	4Gb	256Mx16	S/T	S/T
	MT41K512M8RH-125	DDR3L	4Gb	512Mx8	D/S	D/S
	MT41J256M8HX-15	DDR3	2Gb	256Mx8	D/S	D/S
	K4B4G1646B-HCK0	DDR3	4Gb	256Mx16	S/T	S/T
	K4B2G1646E-BCK0	DDR3	2Gb	128Mx16	S/T	S/T
	K4B2G0846D-HCK0	DDR3	2Gb	256Mx8	D/S	D/S

SAMSUNG	K4B2G1646Q-BCK0	DDR3	2Gb	128Mx16	S/T	S/T
	K4B4G1646Q-BCK0	DDR3	4Gb	256Mx16	S/T	S/T
	K4B4G1646Q-HYK0	DDR3	4Gb	256Mx16	D/S	D/S
	K4E8E304ED-EGCF	LPDDR3	8Gb	128Mx32x2CS	D/S	D/S
	K4E8E304ED-EGCE	LPDDR3	8Gb	128Mx32x2CS	D/S	D/S
	K4E4E324ED-EGCF	LPDDR3	4Gb	128Mx32x1CS	S/T	S/T
	K4P8G304EG-AGC2	LPDDR2	8Gb	128Mx32x2CS	S/T	S/T
Kingston（金士顿）	D2516EC4BXGGB	DDR3	4Gb	256Mx16	S/T	S/T
PSC/Mira (力晶)	P3P4GF3BLF-GGN	DDR3	4Gb	512Mx8	N/T	N/T
	P3P4GF4BLF-GGN	DDR3	4Gb	256Mx16	S/T	S/T
	P3P4GF4BLF-GDJ	DDR3	4Gb	256Mx16	N/T	N/T
Etron（钰创）	EM6GE16EW5B-15H	DDR3	4Gb	256Mx16	S/T	S/T
	EM6GD08EWUA-15H	DDR3	2Gb	256Mx8	N/T	N/T
	EM6GD08EWUA-12H	DDR3	2Gb	256Mx8	N/T	N/T
SCSemicon（华芯）	HXB15H2G800BF-15H	DDR3	2Gb	256Mx8	S/T	S/T
	HXB15H2G160BF-15H	DDR3	2Gb	128Mx16	N/T	N/T
	HXB15H4G160BF-15H	DDR3	4Gb	256Mx16	S/T	S/T
	HXB15H4G800BF-15H	DDR3	4Gb	512Mx8	N/T	N/T
	HXB15H4G800AF-15H	DDR3	4Gb	512Mx8	N/T	N/T
	HXB13H4G160BF(L)-13K	DDR3L	4Gb	256Mx16	N/T	N/T
PI（补丁）	PMF511808DBR-KADN	DDR3	2Gb	256Mx8	N/T	N/T
	PMF512816BBR-KADN	DDR3	4Gb	256Mx16	S/T	S/T
	PMF511808BBR	DDR3	2Gb	256Mx8	N/T	N/T
eorex（森富）	EM47DM0888SBA-150	DDR3	1Gb	128Mx8	N/T	N/T
	EM47EM0888SBA-150	DDR3	2Gb	256Mx8	N/T	N/T
	EM47CM1688SBB-150	DDR3	1Gb	64Mx16	N/T	N/T
	EM47EM1688SBA-150	DDR3	4Gb	256Mx16	N/T	N/T
	EM47EM3288SBA-150	DDR3	8Gb	256Mx32	S/T	S/T
	GT8UB128M16HP	DDR3	2Gb	128Mx16	S/T	S/T

GT（创芯）	GT8UB128M16BP	DDR3	2Gb	128Mx16	N/T	N/T
	GT8UB256M16BP	DDR3	4Gb	256Mx16	S/T	S/T
EG						
	EG1L256M88BA12LH	DDR3	2Gb	256Mx8	D/S	D/S
Elixir	N2CB2G80GN	DDR3	2Gb	256Mx8	N/T	N/T
	N2CB4G16CP-DI	DDR3	4Gb	256Mx16	N/T	N/T