# Allwinner Technology CO., Ltd.

## Allwinner A20 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 |
| D/S | Datasheet Support |
| S/T | Sample Tested |
| √ | Sample Tested and Mass Production |

| Vendor | Part Number | Type | package | Density | Organization | Status (A20) |
|---|---|---|---|---|---|---|
| Hynix | H5TQ2G83CFR-xxC | DDR3 | FBGA 78 | 2Gb | 256Mx8 | √ |
| | H5TQ2G83DFR-xxC | DDR3 | FBGA 78 | 2Gb | 256Mx8 | √ |
| | H5TQ2G63DFR-xxC | DDR3 | FBGA 96 | 2Gb | 128Mx16 | D/S |
| | H5TQ2G83EFR-xxC | DDR3 | FBGA 78 | 2Gb | 256Mx8 | √ |
| | H5TQ2G83FFR-xxC | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | H5TQ2G63FFR-xxC | DDR3 | FBGA 96 | 2Gb | 128Mx16 | D/S |
| | H5TQ4G83MFR-xxC | DDR3 | FBGA 78 | 4Gb | 512Mx8 | D/S |
| | H5TQ4G63MFR-xxC | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | H5TQ4G83AFR-xxC | DDR3 | FBGA 78 | 4Gb | 512Mx8 | S/T |
| | H5TQ4G63AFR-xxC | DDR3 | FBGA 96 | 4Gb | 256Mx16 | √ |
| | H5TC2G83EFR-xxA | DDR3L | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | H5TC2G83FFR-xxA | DDR3L | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | H5TC2G63FFR-xxA | DDR3L | FBGA 96 | 2Gb | 128Mx16 | S/T |
| | H5TC4G83AFR-xxA | DDR3L | FBGA 78 | 4Gb | 512Mx8 | D/S |
| | H5TC4G63AFR-xxA | DDR3L | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | H5TC2G83EFR-xxR | DDR3L-RS | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | H5TC2G63DFR-xxR | DDR3L-RS | FBGA 96 | 2Gb | 128Mx16 | D/S |

| | H5TC2G63FFR-xxR | DDR3L-RS | FBGA 96 | 2Gb | 128Mx16 | D/S |
|---|---|---|---|---|---|---|
| | H5TC4G83AFR-xxR | DDR3L-RS | FBGA 78 | 4Gb | 512Mx8 | D/S |
| | H5TC4G63AFR-xxR | DDR3L-RS | FBGA 96 | 4Gb | 256Mx16 | D/S |
| | H5TC8G63AMR-PBA | DDR3L | FBGA 96 | 8Gb | 256Mx16x2CS | D/S |
| | H5TC8G83AMR-PBA | DDR3L | FBGA 78 | 8Gb | 512Mx8x2CS | D/S |
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| Nanya（南亚） | NT5CB128M8DN-xx | DDR3 | FBGA 78 | 1Gb | 128Mx8 | S/T |
| | NT5CB256M8GN-xx | DDR3 | FBGA 78 | 2Gb | 256Mx8 | S/T |
| | NT5CB256M8FN-xx | DDR3 | FBGA 78 | 2Gb | 256Mx8 | S/T |
| | NT5CB128M16HP-xx | DDR3 | FBGA 96 | 2Gb | 128Mx16 | S/T |
| | NT5CB128M16FP-xx | DDR3 | FBGA 96 | 2Gb | 128Mx16 | D/S |
| | NT5CB256M16BP-xx | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | NT5CC512M8CN-xx | DDR3L | FBGA 78 | 4Gb | 512Mx8 | S/T |
| | NT5CC256M16CP-xx | DDR3L | FBGA 96 | 4Gb | 256Mx16 | D/S |
| | | | | | | |
| Elpida | EDJ2108BDBG-DJ-F | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | EDJ4216EFBG-GN-F | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | EDJ4208EFBG-GNL-F | DDR3L | FBGA 78 | 4Gb | 512Mx8 | S/T |
| | EDJ4208EFBG-GN-F | DDR3 | FBGA 78 | 4Gb | 512Mx8 | S/T |
| | EDJ4216EFBG-GNL-F | DDR3L | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | J2108DEBG-DJ-F | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | | | | | | |
| Micron | MT41K256M8DA-125 | DDR3L | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | MT41K128M16JT-125 | DDR3L | FBGA 96 | 2Gb | 128Mx16 | D/S |
| | MT41J128M16JT-107 | DDR3 | FBGA 96 | 2Gb | 128Mx16 | S/T |
| | MT41K256M16HA-125 | DDR3L | FBGA 96 | 4Gb | 256Mx16 | D/S |
| | MT41K512M8RH-125 | DDR3L | FBGA 78 | 4Gb | 512Mx8 | D/S |
| | MT41J256M8HX-15 | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | | | | | | |
| SAMSUNG | K4B4G1646B-HCK0 | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | K4B2G1646E-BCK0 | DDR3 | FBGA 96 | 2Gb | 128Mx16 | D/S |
| | K4B2G0846D-HCK0 | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | K4B2G1646Q-BCK0 | DDR3 | FBGA 96 | 2Gb | 128Mx16 | D/S |
| | K4B4G1646Q-BCK0 | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | K4B4G1646Q-HYK0 | DDR3L | FBGA 96 | 4Gb | 256Mx16 | S/T |
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| Kingston（金士顿） | D2516EC4BXGGB | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
|---|---|---|---|---|---|---|
| PSC/Mira (力晶) | P3P4GF3BLF-GGN | DDR3 | FBGA 78 | 4Gb | 512Mx8 | S/T |
| | P3P4GF4BLF-GGN | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | P3P4GF4BLF-GDJ | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
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| Etron（钰创） | EM6GE16EW5B-15H | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | EM6GD08EWUA-15H | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | EM6GD08EWUA-12H | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
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| SCSemicon（华芯） | HXB15H2G800BF-15H | DDR3 | FBGA 78 | 2Gb | 256Mx8 | S/T |
| | HXB15H2G160BF-15H | DDR3 | FBGA 96 | 2Gb | 128Mx16 | S/T |
| | HXB15H4G160BF-15H | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | HXB15H4G800BF-15H | DDR3 | FBGA 78 | 4Gb | 512Mx8 | D/S |
| | HXB15H4G800AF-15H | DDR3 | FBGA 78 | 4Gb | 512Mx8 | D/S |
| | HXB13H4G160BF(L)-13K | DDR3L | FBGA 96 | 4Gb | 256Mx16 | D/S |
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| PI（补丁） | PMF511808DBR-KADN | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | PMF512816BBR-KADN | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | PMF511808BBR | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | | | | | | |
| eorex（森富） | EM47DM0888SBA-150 | DDR3 | FBGA 78 | 1Gb | 128Mx8 | D/S |
| | EM47EM0888SBA-150 | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | EM47CM1688SBB-150 | DDR3 | FBGA 96 | 1Gb | 64Mx16 | D/S |
| | EM47EM1688SBA-150 | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | EM47EM3288SBA-150 | DDR3 | | 8Gb | 256Mx32 | D/S |
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| GT（创芯） | GT8UB128M16HP | DDR3 | FBGA 96 | 2Gb | 128Mx16 | S/T |
| | GT8UB128M16BP | DDR3 | FBGA 96 | 2Gb | 128Mx16 | S/T |
| | GT8UB256M16BP | DDR3 | FBGA 96 | 4Gb | 256Mx16 | S/T |
| | | | | | | |
| EG | EG1L256M88BA12LH | DDR3 | FBGA 78 | 2Gb | 256Mx8 | D/S |
| | | | | | | |
| Elixir | N2CB2G80GN | DDR3 | FBGA 78 | 2Gb | 256Mx8 | S/T |
| | N2CB4G16CP-DI | DDR3 | FBGA 96 | 4Gb | 256Mx16 | D/S |