

# Rockchip Solutions DDR SDRAM Support List

**Ver 2.33**

**2018/7/13**

## ♦ Revision History

| Revision No. | History                      | Date       |
|--------------|------------------------------|------------|
| 2.00         | ORG.                         | 2012.12.24 |
| 2.01         | Add some supporting messages | 2013.01.28 |
| 2.02         | Add some supporting messages | 2013.05.17 |
| 2.03         | Add some supporting messages | 2013.10.07 |
| 2.04         | Add some supporting messages | 2014.01.08 |
| 2.05         | Add some supporting messages | 2014.03.21 |
| 2.06         | Add some supporting messages | 2014.05.09 |
| 2.07         | Add some supporting messages | 2014.06.10 |
| 2.08         | Add some supporting messages | 2014.09.16 |
| 2.09         | Add some supporting messages | 2015.03.16 |
| 2.10         | Add some supporting messages | 2015.04.13 |
| 2.11         | Add some supporting messages | 2015.05.06 |
| 2.12         | Add some supporting messages | 2015.07.17 |
| 2.13         | Add some supporting messages | 2015.10.10 |
| 2.14         | Add some supporting messages | 2015.12.17 |
| 2.15         | Add some supporting messages | 2016.03.01 |
| 2.16         | Add some supporting messages | 2016.03.31 |
| 2.17         | Add some supporting messages | 2016.06.24 |
| 2.18         | Add some supporting messages | 2016.07.29 |
| 2.19         | Add some supporting messages | 2016.08.31 |
| 2.20         | Add some supporting messages | 2016.10.20 |
| 2.21         | Add some supporting messages | 2016.11.07 |
| 2.22         | Add some supporting messages | 2016.12.05 |
| 2.23         | Add some supporting messages | 2016.12.09 |
| 2.24         | Add some supporting messages | 2016.12.29 |
| 2.25         | Add some supporting messages | 2017.03.30 |
| 2.26         | Add some supporting messages | 2017.05.24 |
| 2.27         | Add some supporting messages | 2017.07.05 |
| 2.28         | Add some supporting messages | 2017.08.24 |
| 2.29         | Add some supporting messages | 2017.11.24 |
| 2.30         | Add some supporting messages | 2018.01.24 |
| 2.31         | Add some supporting messages | 2018.03.26 |
| 2.32         | Add some supporting messages | 2018.05.25 |
| 2.33         | Add some supporting messages | 2018.07.13 |

## ♦ Symbol

| Symbol | Description                      |
|--------|----------------------------------|
| V      | Fully Tested and Mass production |
| T/A    | Fully Tested and Applicable      |
| N/A    | Not Applicable                   |

## ♦The Latest Reference Circuits Version

| Chip                   | DRAM Support Type        | RK Reference Circuit Version                           |
|------------------------|--------------------------|--|
| RK281x                 | DDR2                     | RK2818_REF_V1.3  |
| RK2906                 | DDR2/DDR3/DDR3L          | RK2906_PMIC_REF_V20_0418                               |
| RK2918                 | DDR2/DDR3/DDR3L          | RK2918_REF_V13_20110517                                |
| RK2926/RK3026          | DDR3/DDR3L               | 2926_86v_v1.2_20121109                                 |
| RK2928/RK3028/RK3028A  | DDR3/DDR3L               | RK2928-DDR3P208SD4-V10-20120712LX.pcb                  |
| RK3066                 | DDR3/DDR3L/LPDDR2        | RK3066_REF_TPS659102_V12_20121024_1CELL                |
| PX2                    | DDR3/DDR3L/LPDDR2        | PX2_CAR_V11.pcb  |
| RK3168/RK3188          | DDR3/DDR3L/LPDDR2        | RK3188-DDR3P416SS4-V10-20130607WF.pcb                  |
| RK3126                 | DDR3/DDR3L               | 2926_86v_v1.2_20121109                                 |
| RK3128                 | DDR3/DDR3L/LPDDR2        | RK3128-DDR3P216SD4-V10-20140912HJH.pcb                 |
| RK3288                 | DDR3/DDR3L/LPDDR2/LPDDR3 | RK3288-DDR3P416SD6-V11-20140305HJH                     |
| RK3368                 | DDR3/DDR3L/LPDDR2/LPDDR3 | R88(RK3368)_V01_20150313                               |
| RK3036                 | DDR3/DDR3L               | RK3036_SDK_V1.0_20140528                               |
| RK3036G                | DDR3/DDR3L               | DONGLE_RK3036-G_20150408J.pcb                          |
| RK3228A/RK3228B/RK3229 | DDR3/DDR3L/LPDDR2/LPDDR3 | RK3228A_BOX_R88_DISCRETEPOWER_DDR3P216SD4_V1.0_2015112 |
| PX3                    | DDR3/DDR3L/LPDDR2        | RK_SDK_MAIN_PX3_CAR_V10_20160607                       |
| RK3399                 | DDR3/DDR3L/LPDDR3/LPDDR4 | RK3399_VR&Tablet_V10_20160620                          |
| PX5                    | DDR3/DDR3L/LPDDR2/LPDDR3 | RK_SDK_MAIN_PX5_CAR_V10_20160714_CGC                   |
| RK3228H                | DDR3/DDR3L/DDR4/LPDDR3   | RK_Demo_RK3228H_BOX_RK805-1_DDR3P216SD2_V02_20161128   |
| RK3328                 | DDR3/DDR3L/DDR4/LPDDR3   | RK_EVB_RK3328_BOX_RK805-1_DDR3P416DD6_V11_20161116     |
| RV1108                 | DDR3/DDR3L/DDR2/LPDDR2   | RK_EVB_MAINBOARD_RV1108_V12_20160930                   |
| PX3-SE                 | DDR3/DDR3L/LPDDR2        | RK_SDK_MAIN_PX3SE_CAR_V11                              |
| RK3326                 | DDR3/DDR3L/DDR4/LPDDR2   | RK_EVB_RK3326_LP3S178P132SD4_V11_20180301FZB           |
| PX30                   | DDR3/DDR3L/DDR4/LPDDR2   | RK_EVB_PX30_DDR4P416DD6_V10_20180301_FZB               |
| RK3308                 | DDR3/DDR3L/DDR2/LPDDR2   | RK_EVB_RK3308_DDR3P116SD4_V10_20180301                 |

Application Note:

- [1] Because lack of Address pin A15 in package, following SoCs do not support the 512M\*8 DDR3:  
RK2906-6,RK2906-8,RK3066.
- [2]The DRAM Part Number usually consists of two parts divided by '-', which the first part contains memory type, density, organization, package, and the second part usually means data rate. We don't care about the second part.
- [3]RockChip platform can support all the chips that match the first part of Part Number which marks 'V' or 'T/A', and do not need to care the second part. If you want your system running more effective, you may need to find out the exact data rate in DRAM datasheet and config in kernel menuconfig.
- [4]Please copy the Rockchip reference design model of DRAM area PCB Layout directly without any modification and follow the PCB layout rules from Rockchip.  
Contact information: fae@rock-chips.com
- [5]Only support for RK3128.
- [6]The maximums frequency of H9CCNNBJTMLAR run on the RK3399 is 800Mhz.
- [7]The DRAM's VDD and VDDQ should powered by 1.5V when it used on these SoCs.

| Manufacturer | Part Number                     | Density       | Organization        | Type   | package | RK290x<br>RK2918 | RK2928/RK30<br>28A/RK3128/<br>PX3-SE | RK2926/RK3026/<br>RK3036/RK3036G<br>/RK3126 | RK3066/RK3066A/PX2<br>RK3168/RK3188/PX3 | RK3288 | RK3368/RK3228A/<br>RK3228B/RK3229/<br>PX5 | RV1108<br>/RK330<br>8 | RK3228H | RK3399 | RK3328 | RK3326/<br>PX30 | 与RK兼容情况   |
|--------------|---------------------------------|---------------|---------------------|--------|---------|------------------|--------------------------------------|---|---|--------|---|-----------------------|---------|--------|--------|-----------------|---|
| Elpida       | E1116AEBG-8E-F                  | 1G bit        | 64M×16              | DDR2   | 84ball  | ✓                |                                      |   |   |        |   |                       |         |        |        |                 | 除个别老款颗粒如：<br>EDJ2108BDBG对pcb要求<br>偏高外总体兼容情况<br>良好 |
|              | EDJ1108DJBG                     | 1G bit        | 128M x 8            | DDR3   | 78ball  | ✓                |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | EDJ2108DEBG                     | 2G bit        | 256M×8              | DDR3   | 78ball  | ✓                | T/A                                  | T/A   | ✓                                       | ✓      |   |                       |         |        |        |                 |   |
|              | EDJ21088DBG                     | 2G bit        | 256M×8              | DDR3   | 78ball  | ✓                | T/A                                  | N/A   | ✓                                       | ✓      |   |                       |         |        |        |                 |   |
|              | EDJ2108EDBG                     | 2G bit        | 256M×8              | DDR3L  | 78ball  | ✓                |                                      |   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | EDJ2116DEBG                     | 2G bit        | 128M×16             | DDR3   | 96ball  |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | EDJ2116EEBG                     | 2G bit        | 128M×16             | DDR3L  | 96ball  | T/A              |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | EDJ42088BBG                     | 4G bit        | 512M×8              | DDR3   | 78ball  |                  | T/A                                  | T/A   | T/A <sup>(1)</sup>                      | T/A    |   |                       |         |        |        |                 |   |
|              | EDJ4208EFBG                     | 4G bit        | 512M×8              | DDR3L  | 78ball  |                  | T/A                                  | T/A   | T/A <sup>(1)</sup>                      | T/A    |   |                       |         |        |        |                 |   |
|              | EDJ4208EBBG                     | 4G bit        | 512M×8              | DDR3L  | 78ball  |                  | T/A                                  | N/A   | T/A <sup>(1)</sup>                      | T/A    |   |                       |         |        |        |                 |   |
|              | EDJ4216BAGE                     | 4G bit        | 256M×16             | DDR3   | 96ball  | ✓                |                                      |   | ✓                                       | ✓      |   |                       |         |        |        |                 |   |
|              | EDJ42168BBG                     | 4G bit        | 256M×16             | DDR3   | 96ball  | ✓                |                                      |   | ✓                                       | ✓      |   |                       |         |        |        |                 |   |
|              | EDJ4216EBBG                     | 4G bit        | 256M×16             | DDR3L  | 96ball  | T/A              |                                      |   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | EDJ4216EFBG                     | 4G bit        | 256M×16             | DDR3L  | 96ball  | T/A              |                                      |   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | EDB4032B2MA                     | 4Gb/2C5       | 64M×32×2pcs         | LPDDR2 | 134ball |                  |                                      | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | EDB8132B3MA                     | 8Gb/2C5       | 128M×32×2pcs        | LPDDR2 | 134ball |                  |                                      |   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | EDBM164B1PD-1D-I                | 12Gb/2channel | 256Mx32+<br>128Mx32 | LPDDR2 | 220ball |                  |                                      |   | N/A                                     | T/A    |   |                       |         |        |        |                 |   |
| Micron       | EDF8132A3MA-GD-F-D              | 8Gb           | 256Mx32             | LPDDR3 | 178ball |                  |                                      |   |   |        |   |                       |         |        |        |                 | 兼容性好  |
|              | EDF8132A1MC-GD-F-D              | 8Gb           | 256Mx32             | LPDDR3 | 178ball |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | FA232A1MA-GD-F                  | 16Gb          | 512M×32             | LPDDR3 | 178ball |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | EDFA232A2MA-GD-F-D              | 16Gb          | 512M×32             | LPDDR3 | 178ball |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              |                                 |               |                     |        |         |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT47H64M16HR-25                 | 1G bit        | 64M×16              | DDR2   | 84ball  | ✓                |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT41J128M8JP-15E-G(D9MNL)       | 1G bit        | 128M x 8            | DDR3   | 78ball  | ✓                |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT41K128M8DA-107J(D9RDJ)        | 1G bit        | 128M x 8            | DDR3L  | 78ball  |                  |                                      |   | T/A                                     |        |   |                       |         |        |        |                 |   |
|              | MT41K64M16TW-107J(D9SFT)        | 1G bit        | 64M×16              | DDR3L  | 96ball  |                  |                                      |   |   |        |   | T/A                   |         |        |        |                 |   |
|              | MT41J128M16HA-15E-D(D9LGQ)      | 2G bit        | 128M×16             | DDR3   | 96ball  | ✓                |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT41J256M8HX-15E-D(D9LGK)       | 2G bit        | 256M×8              | DDR3   | 78ball  | ✓                | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | MT41K256M8DA-125K(D9PSH)        | 2G bit        | 256M×8              | DDR3L  | 78ball  | ✓                | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | MT41K256M8DA-125M(D9PFJ)        | 2G bit        | 256M×8              | DDR3L  | 78ball  | T/A              | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | MT41K128M16HA-15E-D(D9LJM)      | 2G bit        | 128M×16             | DDR3L  | 96ball  | ✓                |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT41K128M16JT-125K(D9PTK)       | 2G bit        | 128M×16             | DDR3L  | 96ball  | ✓                | T/A                                  | T/A   | T/A                                     | T/A    |   | T/A                   | T/A     |        |        |                 |   |
|              | MT41K512M8RH-125E(D9QBJ)        | 4G bit        | 512M×8              | DDR3L  | 78ball  |                  | T/A                                  | T/A   | T/A <sup>(1)</sup>                      | T/A    |   |                       |         |        |        |                 |   |
|              | MT41K512M8RG-107N(D9RVX)        | 4G bit        | 512M×8              | DDR3L  | 78ball  |                  |                                      |   | T/A                                     |        |   |                       |         |        |        |                 |   |
|              | MT41K512M8DA-107P(D9SGQ)        | 4G bit        | 512M×8              | DDR3L  | 78ball  |                  |                                      |   | T/A                                     |        |   |                       |         |        |        |                 |   |
|              | MT41K256M16RE-15E-D(D9PBF)      | 4G bit        | 256M×16             | DDR3L  | 96ball  | ✓                |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT41K256M16HA-125E(D9PXV)       | 4G bit        | 256M×16             | DDR3L  | 96ball  | ✓                | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | MT41K256M16LV-107N(D9SDJ)       | 4G bit        | 256M×16             | DDR3L  | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A    |   | T/A                   | T/A     | T/A    | T/A    | T/A             |   |
|              | MT41K256M16TW-107P(D9SHD)       | 4G bit        | 256M×16             | DDR3L  | 96ball  |                  |                                      |   | T/A                                     | T/A    |   | T/A                   | T/A     | T/A    | T/A    | T/A             |   |
|              | MT41K512M16HA-125A(D9STQ)       | 8G bit        | 512M×16             | DDR3L  | 96ball  |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT41K512M16HA-107A(D9SDQ)       | 8G bit        | 512M×16             | DDR3L  | 96ball  |                  |                                      |   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | MT40A256M16GE-083E8(D9TGQ)      | 4G bit        | 256M×16             | DDR4   | 96ball  |                  |                                      |   |   |        |   |                       | T/A     |        | T/A    |                 |   |
|              | MT40A512M16JY-083E8(D9TBK)      | 8G bit        | 512M×16             | DDR4   | 96ball  |                  |                                      |   |   |        |   |                       | T/A     |        | T/A    |                 |   |
|              | MT40A1G16WBU-083E8(D9TPH)       | 16G bit       | 1Gx16               | DDR4   | 96ball  |                  |                                      |   |   |        |   |                       | T/A     |        | T/A    |                 |   |
|              | MT42L128M32D1GU-25 WT-A(Z9QHJ)  | 4G bit        | 128Mx32             | LPDDR2 | 134ball |                  |                                      |   | T/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | MT42L256M16D1GU-18 WT-A(D9RLT)  | 4G bit        | 256M×16             | LPDDR2 | 134ball |                  |                                      |   |   |        |   | T/A                   |         |        |        |                 |   |
|              | MT42L128M64D2LL-25 WT-A(D9QQG)  | 8G bit        | 128Mx32x2Ch         | LPDDR2 | 216ball |                  |                                      |   | N/A                                     | T/A    |   |                       |         |        |        |                 |   |
|              | MT52L256M32D1PF-107 WT-B(D9SRZ) | 8G bit        | 256Mx32             | LPDDR3 | 178ball |                  |                                      |   |   | T/A    |   |                       | T/A     | T/A    | T/A    | T/A             |   |
|              | MT52L512M32D2PF-107 WT-B(D9SFF) | 16G bit       | 512Mx32             | LPDDR3 | 178ball |                  |                                      |   |   | T/A    |   |                       |         | T/A    | T/A    | T/A             |   |
|              | MT53B256M32D1NP-062 WT-C(D9TFT) | 8G bit        | 256Mx32             | LPDDR4 | 200ball |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT53B512M32D2NP-062 WT-C(D9TFW) | 16G bit       | 512M×32             | LPDDR4 | 200ball |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              | MT53B512M64D4NK-053 WT-C(D9TGF) | 32G bit       | 512M×64             | LPDDR4 | 366ball |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              |                                 |               |                     |        |         |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              |                                 |               |                     |        |         |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              |                                 |               |                     |        |         |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              |                                 |               |                     |        |         |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |
|              |                                 |               |                     |        |         |                  |                                      |   |   |        |   |                       |         |        |        |                 |   |

| Manufacturer | Part Number         | Density       | Organization | Type   | package | RK290x<br>RK2918 | RK2928/RK30<br>28A/RK3128/<br>PX3-SE | RK2926/RK3026/<br>RK3036/RK3036G<br>/RK3126 | RK3066/RK3066A/PX2<br>RK3168/RK3188/PX3 | RK3288 | RK3368/RK3228A/<br>RK3228B/RK3229/<br>PX5 | RV1108<br>/RK330<br>8 | RK3228H | RK3399             | RK3328 | RK3326/<br>PX30 | 与RK兼容情况 |
|--------------|---------------------|---------------|--------------|--------|---------|------------------|--------------------------------------|---|---|--------|---|-----------------------|---------|--------------------|--------|-----------------|---------|
| Hynix        | H5PS1G63CFP         | 1G bit        | 64M×16       | DDR2   | 84ball  | ✓                |                                      |   |   |        |   |                       |         |                    |        |                 | 兼容性好    |
|              | H5PS1G63EFR         | 1G bit        | 64M×16       | DDR2   | 84ball  | ✓                |                                      |   |   |        |   |                       |         |                    |        |                 |         |
|              | H5TQ1G83DFR         | 1G bit        | 128M×8       | DDR3   | 78ball  | ✓                |                                      |   | T/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TQ1G83TFR         | 1G bit        | 128M×8       | DDR3   | 78ball  | ✓                |                                      |   |   |        |   |                       |         |                    |        |                 |         |
|              | H5TQ2G83CFR         | 2G bit        | 256M×8       | DDR3   | 78ball  | ✓                | ✓                                    | ✓   | ✓                                       | ✓      |   |                       |         |                    |        |                 |         |
|              | H5TQ2G83BFR         | 2G bit        | 256M×8       | DDR3   | 78ball  | T/A              | T/A                                  | T/A   | ✓                                       | ✓      |   |                       |         |                    |        |                 |         |
|              | H5TQ2G83EFR         | 2G bit        | 256M×8       | DDR3   | 78ball  | T/A              | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TQ2G83GFR         | 2G bit        | 256M×8       | DDR3   | 78ball  |                  | T/A                                  | T/A   |   |        |   |                       |         |                    |        |                 |         |
|              | H5TQ2G83GFR         | 2G bit        | 256M×8       | DDR3   | 78ball  |                  |                                      | T/A   | T/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TQ2G63BFR         | 2G bit        | 128M×16      | DDR3   | 96ball  | ✓                |                                      |   |   |        |   |                       |         |                    |        |                 |         |
|              | H5TQ2G63FFR         | 2G bit        | 128M×16      | DDR3   | 96ball  |                  | T/A                                  | T/A   |   |        |   |                       |         |                    |        |                 |         |
|              | H5TQ2G63GFR         | 2G bit        | 128M×16      | DDR3   | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A    | T/A                                       |                       |         |                    |        |                 |         |
|              | H5TC2G63GFR         | 2G bit        | 128M×16      | DDR3L  | 96ball  |                  |                                      |   |   |        | T/A                                       | T/A                   |         |                    |        | T/A             |         |
|              | H5TQ2G63DFR         | 2G bit        | 128M×16      | DDR3   | 96ball  | ✓                |                                      |   | T/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TQ4G83AFR         | 4G bit        | 512M×8       | DDR3   | 78ball  |                  | T/A                                  | T/A   | T/A <sup>(1)</sup>                      | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TC4G83AFR         | 4G bit        | 512M×8       | DDR3L  | 78ball  |                  |                                      |   | T/A <sup>(1)</sup>                      | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TQ4G83MFR         | 4G bit        | 512M×8       | DDR3   | 78ball  |                  | T/A                                  | T/A   | T/A <sup>(1)</sup>                      | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TC4G83BFR         | 4G bit        | 512M×8       | DDR3L  | 78ball  |                  | T/A                                  | T/A   |   |        |   |                       |         |                    |        |                 |         |
|              | H5TQ4G63MFR         | 4G bit        | 256M×16      | DDR3   | 96ball  | ✓                | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TQ4G63AFR         | 4G bit        | 256M×16      | DDR3   | 96ball  | T/A              | T/A                                  | T/A   | T/A                                     | T/A    | T/A                                       | T/A                   | T/A     | T/A                | T/A    | T/A             |         |
|              | H5TC4G63AFR         | 4G bit        | 256M×16      | DDR3L  | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TC4G63CFR         | 4G bit        | 256M×16      | DDR3L  | 96ball  |                  |                                      |   | T/A                                     | T/A    | T/A                                       | T/A                   |         |                    |        | T/A             |         |
|              | H5TC4G63EFR         | 4G bit        | 256M×16      | DDR3L  | 96ball  |                  |                                      |   | T/A                                     | T/A    | T/A                                       | T/A                   | T/A     |                    |        | T/A             |         |
|              | H5TQ4G63EFR         | 4G bit        | 256M×16      | DDR3   | 96ball  |                  |                                      |   | T/A                                     | T/A    | T/A                                       | T/A                   | T/A     | T/A                | T/A    | T/A             |         |
|              | H5TQ4G63CFR         | 4G bit        | 256M×16      | DDR3   | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A    | T/A                                       | T/A                   | T/A     | T/A                | T/A    | T/A             |         |
|              | H5TC8G63AMR         | 8G bit        | 512M×16      | DDR3L  | 96ball  |                  |                                      |   |   | T/A    |   |                       |         |                    |        |                 |         |
|              | H5TC8G63CMR         | 8G bit        | 512M×16      | DDR3L  | 96ball  |                  |                                      |   |   |        |   |                       |         |                    |        |                 |         |
|              | H5AN4G6NAFR         | 4G bit        | 256M×16      | DDR4   | 96ball  |                  |                                      |   |   |        |   |                       | T/A     |                    |        | T/A             |         |
|              | H5AN4G6NBJR         | 4G bit        | 256M×16      | DDR4   | 96ball  |                  |                                      |   |   |        |   |                       | T/A     |                    |        | T/A             |         |
|              | H5AN8G6NAFR         | 8G bit        | 512M×16      | DDR4   | 96ball  |                  |                                      |   |   |        |   |                       | T/A     |                    |        | T/A             |         |
|              | H9TCNNN8JDMMPR      | 8Gb/2CS       | 256M×32      | LPDDR2 | 134ball |                  |                                      |   | T/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H8TJR00X0MLR        | 8Gb/2CS       | 256M×32      | LPDDR2 | 168ball |                  |                                      |   | T/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H9TKNNN8KDMMPR      | 8Gb/2Channel  | 128M×32×2Ch  | LPDDR2 | 216ball |                  | T/A <sup>(5)</sup>                   |   |   | T/A    |   |                       |         |                    |        |                 |         |
|              | H9TKNNN8PDMRAR      | 16Gb/2Channel | 256M×32×2Ch  | LPDDR2 | 220ball |                  |                                      |   | N/A                                     | T/A    |   |                       |         |                    |        |                 |         |
|              | H9CCNNN8JTLAR       | 8Gb           | 256M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A    |   |                       |         |                    |        |                 |         |
|              | H9CCNNN8GTMRLAR     | 8Gb           | 256M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A    |   |                       | T/A     | T/A                | T/A    | T/A             |         |
|              | H9CCNNN8JTLAR       | 8Gb           | 256M×32      | LPDDR3 | 178ball |                  |                                      |   |   |        |   |                       | T/A     | T/A                | T/A    | T/A             |         |
|              | H9CCNNN8JTLAR       | 16Gb          | 512M×32      | LPDDR3 | 178ball |                  |                                      |   |   |        |   |                       | T/A     | T/A                | T/A    | T/A             |         |
|              | H9CCNNN8JTLAR       | 16Gb          | 512M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A    |   |                       | T/A     | T/A                | T/A    | T/A             |         |
|              | H9CCNNN8JTLAR       | 16Gb          | 512M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A    |   |                       | T/A     | T/A                | T/A    | T/A             |         |
|              | H9CCNNN8JTLAR       | 16Gb          | 512M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A    |   |                       |         | T/A <sup>(6)</sup> |        |                 |         |
|              | H9HCNNN8PUMLHR-NLE  | 16Gb          | 512M×32      | LPDDR4 | 200ball |                  |                                      |   |   |        |   |                       |         |                    |        | T/A             |         |
|              | H9HKNNN8DBUMUBR-NMH | 24Gb          | 384M×64      | LPDDR4 | 366ball |                  |                                      |   |   |        |   |                       |         |                    |        | T/A             |         |
|              | H9HKNNN8CUUMUBR-NMH | 32Gb          | 512M×64      | LPDDR4 | 366ball |                  |                                      |   |   |        |   |                       |         |                    |        | T/A             |         |
|              | H9HKNNN8CTUMUBR-NLH | 32Gb          | 512M×64      | LPDDR4 | 366ball |                  |                                      |   |   |        |   |                       |         |                    |        | T/A             |         |
|              |                     |               |              |        |         |                  |                                      |   |   |        |   |                       |         |                    |        |                 |         |
|              |                     |               |              |        |         |                  |                                      |   |   |        |   |                       |         |                    |        |                 |         |

| Manufacturer | Part Number     | Density  | Organization | Type   | package | RK290x<br>RK2918 | RK2928/RK3028A/<br>RK3128/PX3-SE | RK2926/RK3026/<br>RK3036/RK3036G<br>/RK3126 | RK3066/RK3066A/PX2<br>RK3168/RK3188/PX3 | RK3288 | RK3368/RK3228A/<br>RK3228B/RK3229/<br>PX5 | RV1108<br>/RK3308 | RK3228H | RK3399 | RK3328 | RK3326/<br>PX30 | 与RK兼容情况 |
|--------------|-----------------|----------|--------------|--------|---------|------------------|----------------------------------|---|---|--------|---|-------------------|---------|--------|--------|-----------------|---------|
| Nanya        | NTSTU32M16CG-3C | 512M bit | 32M×16       | DDR2   | 84ball  | ✓                |                                  |   |   |        |   |                   |         |        |        |                 | 兼容性好    |
|              | NTSTU64M16HG    | 1G bit   | 64M×16       | DDR2   | 84ball  |                  |                                  |   |   |        |   |                   |         |        |        |                 |         |
|              | NTSCB64M16GP    | 1G bit   | 64M×16       | DDR3   | 96ball  |                  |                                  |   |   |        | T/A                                       | T/A               |         |        |        |                 |         |
|              | NTSCB128M8DN    | 1G bit   | 128M×8       | DDR3   | 96ball  | ✓                |                                  |   |   |        |   | T/A               |         |        |        |                 |         |
|              | NTSCC128M8DN    | 1G bit   | 128M×8       | DDR3L  | 78ball  | ✓                |                                  |   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCB128M8FN    | 1G bit   | 128M×8       | DDR3   | 78ball  |                  |                                  |   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCC128M8GN    | 1G bit   | 128M×8       | DDR3L  | 78ball  |                  |                                  |   |   | T/A    |   |                   |         |        |        |                 |         |
|              | NTSCB256M8GN    | 2G bit   | 256M×8       | DDR3   | 78ball  | ✓                | T/A                              | T/A   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCB256M8BN    | 2G bit   | 256M×8       | DDR3   | 78ball  | ✓                | T/A                              | T/A   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCB256M8FN    | 2G bit   | 256M×8       | DDR3   | 78ball  | ✓                | T/A                              | T/A   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCB256M8IN    | 2G bit   | 256M×8       | DDR3   | 78ball  |                  |                                  |   |   |        | T/A                                       | T/A               | T/A     |        | T/A    | T/A             |         |
|              | NTSCC256M8IN    | 2G bit   | 256M×8       | DDR3L  | 78ball  |                  |                                  |   |   | T/A    |   |                   |         |        | T/A    | T/A             |         |
|              | NTSCB128M16BP   | 2G bit   | 128M×16      | DDR3   | 96ball  | ✓                | T/A                              | T/A   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCB128M16HP   | 2G bit   | 128M×16      | DDR3   | 96ball  | T/A              |                                  |   |   | T/A    |   |                   |         |        |        |                 |         |
|              | NTSCC128M16BP   | 2G bit   | 128M×16      | DDR3L  | 96ball  | ✓                |                                  |   |   |        |   |                   |         |        |        |                 |         |
|              | NTSCB128M16FP   | 2G bit   | 128M×16      | DDR3   | 96ball  | ✓                | T/A                              | T/A   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCC128M16IP   | 2G bit   | 128M×16      | DDR3L  | 96ball  |                  | T/A                              | T/A   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCB128M16IP   | 2G bit   | 128M×16      | DDR3   | 96ball  |                  | T/A                              | T/A   |   | T/A    | T/A                                       |                   |         |        |        |                 |         |
|              | NTSCC128M16JR   | 2G bit   | 128M×16      | DDR3L  | 96ball  |                  |                                  |   |   | T/A    | T/A                                       | T/A               | T/A     |        | T/A    | T/A             |         |
|              | NTSCB512M8DN    | 4G bit   | 512M×8       | DDR3   | 78ball  |                  |                                  |   |   |        | T/A                                       | T/A               | T/A     |        | T/A    | T/A             |         |
|              | NTSCB512M8BN    | 4G bit   | 512M×8       | DDR3   | 78ball  |                  | T/A                              | T/A   | T/A <sup>(1)</sup>                      | T/A    |   |                   |         |        |        |                 |         |
|              | NTSCC512M8CN    | 4G bit   | 512M×8       | DDR3L  | 78ball  |                  | T/A                              | T/A   | T/A <sup>(1)</sup>                      | T/A    |   |                   |         |        |        |                 |         |
|              | NTSCC512M8DN    | 4G bit   | 512M×8       | DDR3L  | 78ball  |                  |                                  |   |   |        | T/A                                       | T/A               | T/A     |        | T/A    | T/A             |         |
|              | NTSCC512M8EN    | 4G bit   | 512M×8       | DDR3L  | 78ball  |                  |                                  |   |   |        | T/A                                       | T/A               | T/A     |        |        |                 |         |
|              | NTSCB256M16BP   | 4G bit   | 256M×16      | DDR3   | 96ball  | ✓                | T/A                              | T/A   | T/A                                     | T/A    |   |                   |         |        |        |                 |         |
|              | NTSCB256M16CP   | 4G bit   | 256M×16      | DDR3   | 96ball  |                  | T/A                              | T/A   | T/A                                     | T/A    |   |                   |         |        |        |                 |         |
|              | NTSCB256M16DP   | 4G bit   | 256M×16      | DDR3   | 96ball  |                  |                                  |   |   | T/A    |   |                   |         |        |        |                 |         |
|              | NTSCB256M16EP   | 4G bit   | 256M×16      | DDR3   | 96ball  |                  |                                  |   |   |        | T/A                                       | T/A               | T/A     | T/A    | T/A    | T/A             |         |
|              | NTSCC256M16CP   | 4G bit   | 256M×16      | DDR3L  | 96ball  | T/A              | T/A                              | T/A   | T/A                                     | T/A    |   |                   |         |        |        |                 |         |
|              | NTSCC256M16DP   | 4G bit   | 256M×16      | DDR3L  | 96ball  |                  | T/A                              | T/A   | T/A                                     | T/A    | T/A                                       | T/A               | T/A     | T/A    | T/A    | T/A             |         |
|              | NTSCC256M16EP   | 4G bit   | 256M×16      | DDR3L  | 96ball  |                  | T/A                              |   | T/A                                     | T/A    | T/A                                       | T/A               | T/A     | T/A    | T/A    | T/A             |         |
|              | NTSCC256M16ER   | 4G bit   | 256M×16      | DDR3L  | 96ball  |                  |                                  |   |   | T/A    | T/A                                       | T/A               | T/A     | T/A    | T/A    | T/A             |         |
|              | NT6TL128M32AQ   | 4G bit   | 128M×32      | LPDDR2 | 168ball |                  |                                  |   | T/A                                     | T/A    |   |                   |         |        |        |                 |         |
|              | NT6TL256F32AI   | 8G bit   | 256M×32      | LPDDR2 | 134ball |                  |                                  |   | T/A                                     | T/A    |   |                   |         |        |        |                 |         |
|              | NT6TL256T32AI   | 8G bit   | 256M×32      | LPDDR2 | 134ball |                  |                                  |   | T/A                                     | T/A    |   |                   |         |        |        |                 |         |
|              | NT6TL256T32AQ   | 8G bit   | 256M×32      | LPDDR2 | 168ball |                  |                                  |   | T/A                                     | T/A    |   |                   |         |        |        |                 |         |
|              | NT6CL128M32BM   | 4G bit   | 128M×32      | LPDDR3 | 178ball |                  |                                  |   |   | T/A    |   |                   |         |        |        |                 |         |
|              | NT6CL128M32CM   | 4G bit   | 128M×32      | LPDDR3 | 178ball |                  |                                  |   |   |        |   |                   |         |        | T/A    |                 |         |
|              | NT6CL256T32CM   | 8G bit   | 256M×32      | LPDDR3 | 178ball |                  |                                  |   |   |        |   |                   |         |        | T/A    |                 |         |
|              | NT6CL256T32BM   | 8G bit   | 256M×32      | LPDDR3 | 178ball |                  |                                  |   |   | T/A    | T/A                                       | N/A               | T/A     | T/A    | T/A    | T/A             |         |
|              | NT6CL256T32AQ   | 8G bit   | 256M×32      | LPDDR3 | 168ball |                  |                                  |   |   |        | T/A                                       | N/A               |         |        |        |                 |         |
|              | NT5AD256M16B2   | 4G bit   | 256M×16      | DDR4   | 96ball  |                  |                                  |   |   |        |   |                   | T/A     |        | T/A    |                 |         |

| Manufacturer | Part Number                           | Density       | Organization | Type   | package | RK290x<br>RK2918 | RK2928/RK30<br>28A/RK3128/<br>PX3-SE | RK2926/RK3026/<br>RK3036/RK3036G<br>/RK3126 | RK3066/RK3066A/PX2<br>RK3168/RK3188/PX3 | RK3288             | RK3368/RK3228A/<br>RK3228B/RK3229/<br>PX5 | RV1108<br>/RK330<br>8 | RK3228H | RK3399 | RK3328 | RK3326/<br>PX30 | 与RK兼容情况  |
|--------------|---------------------------------------|---------------|--------------|--------|---------|------------------|--------------------------------------|---|---|--------------------|---|-----------------------|---------|--------|--------|-----------------|--|
| Samsung      | K4T1G164QE                            | 1G bit        | 64M×16       | DDR2   | 84ball  | ✓                |                                      |   |   |                    |   |                       |         |        |        |                 | 兼容性好<br>K3PE0E000M RZQ需要改<br>为150ohm<br>K3PE0E000A-XGC2 RZQ<br>需要改为NC  |
|              | K4B1G0846G                            | 1G bit        | 128M×8       | DDR3   | 78ball  | ✓                |                                      |   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | K4B1G1646I-xCxx                       | 1G bit        | 64M×16       | DDR3   | 96ball  |                  |                                      |   |   |                    |   | T/A                   |         |        |        |                 |  |
|              | K4B2G0846C                            | 2G bit        | 256M×8       | DDR3   | 78ball  | ✓                |                                      |   |   |                    |   |                       |         |        |        |                 |  |
|              | K4B2G0846F-xYxx                       | 2G bit        | 256M×8       | DDR3L  | 78ball  |                  |                                      |   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | K4B2G1646C                            | 2G bit        | 128M×16      | DDR3   | 96ball  | ✓                |                                      |   |   |                    |   |                       |         |        |        |                 |  |
|              | K4B2G1646E                            | 2G bit        | 128M×16      | DDR3   | 96ball  | T/A              | T/A                                  | T/A   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | K4B2G1646Q                            | 2G bit        | 128M×16      | DDR3   | 96ball  | T/A              | T/A                                  | T/A   | T/A                                     | T/A                | T/A                                       |                       |         |        |        |                 |  |
|              | K4B2G1646F-xYxx                       | 2G bit        | 128M×16      | DDR3L  | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                | T/A                                       | T/A                   | T/A     |        |        |                 |  |
|              | K4B4G0846E-xCxx                       | 4G bit        | 512M×8       | DDR3   | 78ball  |                  |                                      | T/A   | T/A                                     | T/A                | T/A                                       | T/A                   | T/A     |        |        |                 |  |
|              | K4B4G1646B-xCxx                       | 4G bit        | 256M×16      | DDR3   | 96ball  | ✓                | T/A                                  | T/A   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | K4B4G1646Q-xYxx                       | 4G bit        | 256M×16      | DDR3L  | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                | T/A                                       | T/A                   | T/A     |        |        |                 |  |
|              | K4B4G1646D-xYxx                       | 4G bit        | 256M×16      | DDR3L  | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                | T/A                                       | T/A                   | T/A     |        |        |                 |  |
|              | K4B4G1646D-xCxx                       | 4G bit        | 256M×16      | DDR3   | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                | T/A                                       | T/A                   | T/A     |        |        |                 |  |
|              | K4W4G1646Q-xCxx                       | 4G bit        | 256M×16      | DDR3   | 96ball  |                  |                                      |   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | K4B4G1646E-xYxx                       | 4G bit        | 256M×16      | DDR3L  | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                | T/A                                       | T/A                   | T/A     | T/A    |        |                 |  |
|              | K4B4G1646E-xCxx                       | 4G bit        | 256M×16      | DDR3   | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                | T/A                                       | T/A                   | T/A     |        |        |                 |  |
|              | K4B8G1646D-xYxx                       | 8G bit        | 512M×16      | DDR3L  | 96ball  |                  |                                      |   | T/A                                     | T/A                | T/A                                       | T/A                   | T/A     | ✓      | T/A    | T/A             |  |
|              | K4A8G165WB-xCxx                       | 8G bit        | 512M×16      | DDR4   | 96ball  |                  |                                      |   |   |                    |   |                       | T/A     |        |        |                 |  |
|              | K3PE0E000A-XGC2                       | 16Gb/2Channel | 256M×32×2Ch  | LPDDR2 | 220ball |                  |                                      |   | N/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | K3PE0E000M-XGC2                       | 16Gb/2Channel | 256M×32×2Ch  | LPDDR2 | 216ball |                  |                                      |   | N/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | K4E8E304ED-EGCC                       | 8Gb           | 256M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A                | T/A                                       | N/A                   |         |        |        |                 |  |
|              | K4E8E304EE-EGCE                       | 8Gb           | 256M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A                |   |                       |         | T/A    |        |                 |  |
|              | K4E8E324EB-AGCF                       | 8Gb           | 256M×32      | LPDDR3 | 168ball |                  |                                      |   |   |                    | T/A                                       | N/A                   |         |        |        |                 |  |
|              | K4E8E324EB-EGCF                       | 8Gb           | 256M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A                | T/A                                       | N/A                   | T/A     | T/A    | T/A    | T/A             |  |
|              | K3QF1F10DM-AGCE                       | 8Gb/2Channel  | 128M×32×2Ch  | LPDDR3 | 253ball |                  |                                      |   |   | T/A                |   |                       |         |        |        |                 |  |
|              | K3QF1F10EM-BGCF                       | 8Gb           | 128M×32×2Ch  | LPDDR3 | 216ball |                  |                                      |   |   | T/A                |   |                       |         |        |        |                 |  |
|              | K4E6E304EE-EGCE                       | 16Gb          | 512M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A                | T/A                                       | N/A                   | T/A     |        |        | T/A             |  |
|              | K4E6E304ED-EGCE                       | 16Gb          | 512M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A                |   |                       |         |        |        |                 |  |
|              | K4E6E304EB-EGCF                       | 16Gb          | 512M×32      | LPDDR3 | 178ball |                  |                                      |   |   | T/A                | T/A                                       | N/A                   |         | T/A    |        |                 |  |
|              | K4E6E304EC-EGCF                       | 16Gb          | 512M×32      | LPDDR3 | 178ball |                  |                                      |   |   |                    |   |                       | T/A     | T/A    | T/A    | T/A             |  |
|              | K4E8E304EC-EGCF                       | 32Gb          | 1024M×32     | LPDDR3 | 178ball |                  |                                      |   |   |                    |   |                       | T/A     | T/A    | T/A    | T/A             |  |
|              | K3QF3F30BM-QGCF                       | 16Gb          | 256M×32×2Ch  | LPDDR3 | 216ball |                  |                                      |   |   | T/A                |   |                       |         |        |        |                 |  |
|              | K3QF3F30BM-BGCF                       | 16Gb          | 256M×32×2Ch  | LPDDR3 | 216ball |                  |                                      |   |   | T/A                |   |                       |         |        |        |                 |  |
|              | K4F8E304HB-MGCJ                       | 8G bit        | 256M×32      | LPDDR4 | 200ball |                  |                                      |   |   |                    |   |                       |         | T/A    |        |                 |  |
| SPECTEK      | PE918-15E<br>(PRN256M8V79DG8GQF-15E)  | 2G bit        | 256M×8       | DDR3   | 78ball  | T/A              | T/A                                  | T/A   | T/A                                     | T/A                |   |                       |         |        |        |                 | MICRON子品牌，<br>兼容性良好  |
|              | PE936-15E<br>(PRN256M8V89CG8GQF-15E)  | 2G bit        | 256M×8       | DDR3   | 78ball  | T/A              | T/A                                  | T/A   | N/A                                     | N/A                |   |                       |         |        |        |                 |  |
|              | PEB08-15E<br>(PRN512M8V80AG8RHF-15E)  | 4G bit        | 512M×8       | DDR3   | 78ball  |                  | T/A                                  | T/A   | T/A <sup>(1)</sup>                      | T/A                |   |                       |         |        |        |                 |  |
|              | PEB15-15E<br>(PRN256M16V80AG8GPF-15E) | 4G bit        | 256M×16      | DDR3   | 96ball  | T/A              | T/A                                  | T/A   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | PEB16-15E<br>(PRM256M16V80AG8GPF-15E) | 4G bit        | 256M×16      | DDR3   | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | PE017<br>(SUU256M16V908G8LY-125TP)    | 4G bit        | 256M×16      | DDR3   | 96ball  |                  |                                      | T/A   |   |                    |   |                       |         |        |        |                 |  |
|              | Z9QH<br>(SM128MX32U80MD1LGU-25FT)     | 4G bit        | 128M×32      | LPDDR2 | 134ball |                  |                                      |   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | PB047<br>(SS256M32V01MD1LPF-107BT)    | 8G bit        | 256M×32      | LPDDR3 | 178ball |                  |                                      |   |   |                    |   |                       | N/A     | N/A    | N/A    | N/A             |  |
|              | PB008<br>(SM512M322E0FD4LHL)          | 8G bit        | 256M×32      | LPDDR3 | 178ball |                  |                                      |   |   |                    |   |                       |         | T/A    |        |                 |  |
|              | PS007<br>(SU512M32Z01MD2BNP)          | 16G bit       | 512M×32      | LPDDR4 | 200ball |                  |                                      |   |   |                    |   |                       |         | T/A    |        |                 |  |
|              | PS004<br>(SM512M64Z91MD48NK)          | 32Gbit        | 512M×64      | LPDDR4 | 366ball |                  |                                      |   |   |                    |   |                       |         | T/A    |        |                 |  |
|              | PS035<br>(SU512M64Z01MD48NK)          | 32Gbit        | 512M×64      | LPDDR4 | 366ball |                  |                                      |   |   |                    |   |                       |         | T/A    |        |                 |  |
|              | PS013<br>(SM512M64Z01MD48NK)          | 32Gbit        | 512M×64      | LPDDR4 | 366ball |                  |                                      |   |   |                    |   |                       |         | T/A    |        |                 |  |
| Elixir       | N2TU1G16GG-AC                         | 1G bit        | 64M×16       | DDR2   | 84ball  | ✓                |                                      |   |   |                    |   |                       |         |        |        |                 | NANYA子品牌，兼容性良<br>好，特供指定渠道及客户<br>使用。南亚科技指定经销<br>商：彩虹奥特姆(Aotom)、<br>AVT、富鸿(FHL)、芯智<br>(SMC)、伟世科技<br>(WEISHI)、世平(WP1)，<br>提供正品保固及售后服务 |
|              | N2CB1G80GN-CG                         | 1G bit        | 128M×8       | DDR3   | 78ball  | ✓                |                                      |   |   |                    |   |                       |         |        |        |                 |  |
|              | N2CB2G80GN                            | 2G bit        | 256M×8       | DDR3   | 78ball  | ✓                |                                      |   | ✓                                       | ✓                  |   |                       |         |        |        |                 |  |
|              | N2CB2G16BP-CG                         | 2G bit        | 128M×16      | DDR3   | 96ball  | ✓                |                                      |   |   |                    |   |                       |         |        |        |                 |  |
|              | N2CB2G16PP-DI                         | 2G bit        | 128M×16      | DDR3   | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |
|              | N2CB4G08DN-CG                         | 4G bit        | 512M×8       | DDR3   | 78ball  |                  | T/A                                  | T/A   | T/A                                     | T/A <sup>(1)</sup> | T/A                                       |                       |         |        |        |                 |  |
|              | N2CB4G16BP-DI                         | 4G bit        | 256M×16      | DDR3   | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                | T/A                                       |                       |         |        |        |                 |  |
|              | N2CC4G16DP                            | 4G bit        | 256M×16      | DDR3L  | 96ball  |                  | T/A                                  | T/A   | T/A                                     | T/A                |   |                       |         |        |        |                 |  |

| Manufacturer | Part Number         | Density       | Organization | Type   | package | RK290x<br>RK2918   | RK2928/RK30<br>28A/RK3128/<br>PX3-SE | RK2926/RK3026/<br>RK3036/RK3036G<br>/RK3126 | RK3066/RK3066A/PX2<br>RK3168/RK3188/PX3 | RK3288 | RK3368/RK3228A/<br>RK3228B/RK3229/<br>PX5 | RV1108<br>/RK330<br>8 | RK3228H | RK3399 | RK3328 | RK3326/<br>PX30 | 与RK兼容情况  |
|--------------|---------------------|---------------|--------------|--------|---------|--------------------|--------------------------------------|---|---|--------|---|-----------------------|---------|--------|--------|-----------------|--|
| Eorex        | EM47DM1688SBA       | 2G bit        | 128M×16      | DDR3   | 96ball  | N/A                |                                      |   |   |        |   |                       |         |        |        |                 | 台湾颗粒厂商，<br>兼容性较好   |
|              | EM47EM0888SBA-150   | 2G bit        | 256Mx8       | DDR3   | 78ball  | T/A                | N/A                                  | N/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
|              | EM47EM1688SBA-150   | 4G bit        | 256Mx16      | DDR3   | 96ball  | T/A                |                                      |   |   |        |   |                       |         |        |        |                 |  |
|              | EM47EM1688SBB-150A  | 4G bit        | 256Mx16      | DDR3   | 96ball  |                    | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
|              | EM47FM0888SBA-150   | 4G bit        | 512Mx8       | DDR3   | 78ball  |                    | T/A                                  | T/A   |   |        |   |                       |         |        |        |                 |  |
|              | EM47FM0888SBA-150A  | 4G bit        | 512Mx8       | DDR3   | 78ball  |                    | T/A                                  | T/A   |   |        |   |                       |         |        |        |                 |  |
|              | EM47EM3288MBA-125   | 8G bit        | 256Mx32      | DDR3   | 136ball |                    |                                      |   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
|              | EM45FM3288LBA-187F  | 16Gb/2Channel | 256Mx32x2Ch  | LPDDR2 | 220ball |                    |                                      |   | N/A                                     | T/A    |   |                       |         |        |        |                 |  |
| Etron Tech   | EM68816CWPA-25H     | 512M bit      | 32M×16       | DDR2   | 84ball  | √                  |                                      |   |   |        |   |                       |         |        |        |                 | 台湾颗粒厂商，兼容性<br>较好   |
|              | EM6GC16EWKG-12H     | 1G bit        | 64Mx16       | DDR3   | 96ball  |                    |                                      |   |   |        | T/A                                       | T/A                   |         |        |        |                 |  |
|              | EM6GD16EWKG-12H     | 2G bit        | 128Mx16      | DDR3   | 96ball  |                    |                                      |   |   |        | T/A                                       | T/A                   |         |        |        |                 |  |
|              | EM6GD16EWXF-12H     | 2G bit        | 128Mx16      | DDR3   | 96ball  |                    |                                      |   |   |        | T/A                                       | T/A                   |         |        |        |                 |  |
|              | EM6GE16EW5B-15H     | 4G bit        | 256M×16      | DDR3   | 96ball  | T/A                | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
|              | EM6GE08EW8C-12H     | 4G bit        | 512Mx8       | DDR3   | 78ball  |                    | T/A                                  | T/A   |   |        |   |                       |         |        |        |                 |  |
|              | EM6GE16EWXC-12H     | 4G bit        | 256M×16      | DDR3   | 96ball  |                    | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
|              | EM6HE16EWXD-12H     | 4G bit        | 256M×16      | DDR3L  | 96ball  |                    |                                      |   |   |        | T/A                                       | T/A                   | T/A     |        | T/A    | T/A             |  |
|              | EM6GE16EWXD-12H     | 4G bit        | 256M×16      | DDR3   | 96ball  |                    | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         | T/A    | T/A    | T/A             |  |
| ESMT         | M15T1G1664A-DEBG    | 1G bit        | 64Mx16       | DDR3   | 96ball  |                    |                                      |   |   |        |   | T/A                   |         |        |        |                 |  |
|              | M15F4G16256A-DEBG   | 4G bit        | 256M×16      | DDR3   | 96ball  |                    |                                      |   |   |        | T/A                                       | T/A                   |         |        |        |                 |  |
| MIRA         | P3R1GE4CFF-G8E      | 1G bit        | 64M×16       | DDR2   | 84ball  | √                  |                                      |   |   |        |   |                       |         |        |        |                 | 256M16在RK3066，<br>RK31xx平台上需要添加<br>定频相关补丁。并且对<br>参考层完整性要求较<br>高，需要严格遵照我们<br>的布板要求布板。 |
|              | P3R1GE3FGF-G8E      | 1G bit        | 128M×8       | DDR2   | 84ball  | √                  |                                      |   |   |        |   |                       |         |        |        |                 |  |
|              | P2P2GF4ALF-GGN      | 2G bit        | 128Mx16      | DDR3   | 96ball  |                    |                                      |   |   |        | T/A                                       | T/A                   |         |        |        |                 |  |
|              | P3P4GF3BLF-GGN      | 4G bit        | 512M×8       | DDR3   | 78ball  |                    | T/A                                  | N/A   | N/A                                     | N/A    |   |                       |         |        |        |                 |  |
|              | P3P4GF4BLF-GGN      | 4G bit        | 256Mx16      | DDR3   | 96ball  |                    | T/A                                  |   | T/A                                     | T/A    | T/A                                       | T/A                   | T/A     |        | T/A    | T/A             |  |
| UniC         | SCB15H1G160CF-13K   | 1G bit        | 64M×16       | DDR3   | 96ball  |                    |                                      |   |   |        |   | T/A                   |         |        |        |                 |  |
|              | SCN13H2G160AF-13K   | 2G bit        | 128M×16      | DDR3   | 96ball  |                    | T/A                                  |   |   |        |   |                       |         |        |        |                 |  |
|              | SCB13H4G1600AF-11M  | 4G bit        | 256Mx16      | DDR3L  | 96ball  |                    |                                      |   |   | T/A    | T/A                                       | T/A                   |         |        |        |                 |  |
|              | HXB15H4G800AF-13K   | 4G bit        | 512M×8       | DDR3   | 78ball  |                    |                                      |   |   |        | T/A                                       | T/A                   | T/A     |        |        |                 |  |
|              | HXB13H4G160AF-13KT  | 4G bit        | 256Mx16      | DDR3   | 96ball  |                    | T/A                                  | T/A   |   | T/A    | T/A                                       | T/A                   |         |        |        |                 |  |
|              |                     |               |              |        |         |                    |                                      |   |   |        |   |                       |         |        |        |                 |  |
| SCSemicon    | HXB18T1G160AF-25D   | 1G bit        | 64M×16       | DDR2   | 84ball  | √                  |                                      |   |   |        |   |                       |         |        |        |                 | 256M16在RK3066，<br>RK31xx平台上需要添加<br>定频相关补丁。并且对<br>参考层完整性要求较<br>高，需要严格遵照我们<br>的布板要求布板。 |
|              | HXB18T2G160AF-25D   | 2G bit        | 128M×16      | DDR2   | 84ball  | √                  |                                      |   |   |        |   |                       |         |        |        |                 |  |
|              | HXB15H2G800BF-15H   | 2G bit        | 256M×8       | DDR3   | 78ball  | N/A                | T/A                                  | N/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
|              | HXB15H2G160CF-13K   | 2G bit        | 128M×16      | DDR3   | 96ball  |                    | T/A                                  |   |   |        |   |                       |         |        |        |                 |  |
|              | HXB15H4G800BF-15H   | 4G bit        | 512M×8       | DDR3   | 78ball  | N/T <sup>(1)</sup> | T/A                                  | N/A   | T/A <sup>(1)</sup>                      | T/A    |   |                       |         |        |        |                 |  |
|              | HXB15H4G160BF-15H   | 4G bit        | 256Mx16      | DDR3   | 96ball  | T/A                |                                      |   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
| ADATA        | 3CCD-1211A EL1250V  | 2G bit        | 256Mx8       | DDR3   | 78ball  | N/A                | T/A                                  | N/A   | T/A                                     | T/A    |   |                       |         |        |        |                 | 使用Elpida晶圆兼容性<br>一般。PCB不允许有参<br>考层有割断的现象。  |
|              | D2ND-1211A EL1345V  | 4G bit        | 256Mx16      | DDR3   | 96ball  |                    | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
|              | D2ND-1211A NA1518V  | 4G bit        | 256Mx16      | DDR3L  | 96ball  |                    | T/A                                  | T/A   | T/A                                     | T/A    |   |                       |         |        |        |                 |  |
| ANOR         | AM43Q2G08AFP-150C   | 2G bit        | 256Mx8       | DDR3   | 78ball  | N/A                | T/A                                  | N/A   | T/A                                     | T/A    |   |                       |         |        |        |                 | 使用Elpida晶圆兼容性一<br>般。PCB不允许有参考层<br>有割断的现象。  |
|              | AM43Q4G08AFP-150C   | 4G bit        | 512Mx8       | DDR3   | 78ball  |                    | T/A                                  | N/A   |   |        |   |                       |         |        |        |                 |  |
| Zentel       | A3R12E40DBF-AH      | 512M bit      | 32M×16       | DDR2   | 84ball  |                    |                                      |   |   |        |   | T/A                   |         |        |        |                 |  |
|              | A3T1GF40C8F-HP      | 1G bit        | 64M×16       | DDR3   | 96ball  |                    |                                      |   |   |        |   | T/A                   |         |        |        |                 |  |
|              | A3T1GF40C8F-GM      | 1G bit        | 64M×16       | DDR3   | 96ball  |                    |                                      |   |   |        |   | T/A                   |         |        |        |                 |  |
| ProMOS       | V59C1G01168QBASXJ25 | 1G bit        | 64M×16       | DDR2   | 84ball  | √                  |                                      |   |   |        |   |                       |         |        |        |                 |  |
|              | V73CAG01808RA JI9   | 1G bit        | 128M×8       | DDR3   | 78ball  | √                  |                                      |   |   |        |   |                       |         |        |        |                 |  |
|              | V59C1G02168QB       | 2G bit        | 128M×16      | DDR2   | 84ball  | √                  |                                      |   |   |        |   |                       |         |        |        |                 |  |



| Manufacturer | Part Number          | Density          | Organization | Type   | package | RK290x<br>RK2918 | RK2928/RK3028A/RK3128/<br>PX3-SE | RK2926/RK3026/<br>RK3036/RK3036G<br>/RK3126 | RK3066/RK3066A/PX2<br>RK3168/RK3188/PX3 | RK3288  | RK3368/RK3228A/<br>RK3228B/RK3229/<br>PX5 | RV1108<br>/RK3308 | RK3228H | RK3399 | RK3328 | RK3326/<br>PX30 | 与RK兼容情况   |
|--------------|----------------------|------------------|--------------|--------|---------|------------------|----------------------------------|---|---|---------|---|-------------------|---------|--------|--------|-----------------|---|
| SMART        | S4B2G0846C-HYH9      | 2G bit           | 256Mx8       | DDR3   | 78ball  |                  |                                  |   | T/A                                     | T/A     |   |                   |         |        |        |                 | 巴西颗粒，国内用的不多   |
|              | S4B2G0846D-HYK0      | 2G bit           | 256Mx8       | DDR3   | 78ball  |                  |                                  |   | T/A                                     | T/A     |   |                   |         |        |        |                 |   |
| πPM          | PMF510816ABR-G8DN    | 1G bit           | 64Mx16       | DDR3   | 96ball  | ✓                |                                  |   |   |         |   |                   |         |        |        |                 |   |
|              | PMF511816ABR-G8DN    | 2G bit           | 128Mx16      | DDR3   | 96ball  | ✓                |                                  |   |   |         |   |                   |         |        |        |                 |   |
|              | PMF511816DBR-KADN    | 2G bit           | 128Mx16      | DDR3   | 96ball  |                  |                                  |   | T/A                                     | T/A     |   |                   |         |        |        |                 |   |
|              | PMF512816BBR-KADN    | 4G bit           | 256Mx16      | DDR3   | 96ball  |                  |                                  |   | T/A                                     | T/A     |   |                   |         |        |        |                 |   |
|              | PMF512816DBR-KADN    | 4G bit           | 256Mx16      | DDR3   | 96ball  |                  | T/A                              | T/A   | T/A                                     | T/A     |   |                   |         |        |        |                 |   |
|              | PMF412816FBR-KADN    | 4G bit           | 256Mx16      | DDR3L  | 96ball  |                  |                                  |   |   | T/A     |   |                   |         |        |        |                 |   |
| MT.MOSET     | ED3E25608CE-P9       | 2G bit           | 256Mx8       | DDR3   | 78ball  | T/A              | T/A                              | N/A   | T/A                                     | T/A     |   |                   |         |        |        |                 |   |
|              |                      |                  |              |        |         |                  |                                  |   |   |         |   |                   |         |        |        |                 |   |
| WINS         | VP5TQ1G0835-F9       | 1G bit           | 128Mx8       | DDR3   | 78ball  | ✓                |                                  |   |   |         |   |                   |         |        |        |                 |   |
|              | VP5TQ2G1635FFP-F9    | 2G bit           | 128Mx16      | DDR3   | 96ball  | ✓                | N/A                              | N/A   |   |         |   |                   |         |        |        |                 |   |
|              | VP5TQ2G0835L-F9      | 2G bit           | 256Mx8       | DDR3   | 78ball  | ✓                |                                  |   |   |         |   |                   |         |        |        |                 |   |
| Kingston     | D5128EETBPGGBU       | 4G bit           | 512Mx8       | DDR3   | 78ball  |                  | T/A                              | T/A   | T/A                                     | T/A     |   |                   |         |        |        |                 | 256M16在RK3066, RK31xx平台上需要添加定频相关补丁。并且对参考层完整性要求较高，需要严格遵照我们的布板要求布板。 |
|              | D2516EC4BXGGB        | 4G bit           | 256Mx16      | DDR3L  | 96ball  |                  | T/A [7]                          | T/A [7]                                     | T/A [7]                                 | T/A [7] | T/A [7]                                   | T/A [7]           |         |        |        |                 |   |
|              | D2516JC48XGJD        | 4G bit           | 256Mx16      | DDR3   | 96ball  |                  |                                  |   |   | T/A     |   |                   |         |        |        |                 |   |
|              | K823AADL3E08G        | 8G bit           | 512Mx16      | LPDDR3 | 178ball |                  |                                  |   |   |         |   |                   |         |        |        |                 |   |
|              | Q5116PH1MDGPAR       | 16G bit          | 512Mx32      | LPDDR4 | 200ball |                  |                                  |   |   |         |   |                   | T/A     |        |        |                 |   |
| ISSI         | IS43TR16640B-125KBL  | 1G bit           | 64Mx16       | DDR3   | 96ball  |                  |                                  |   |   |         |   | T/A               |         |        |        |                 |   |
|              | IS43TR1612BC-125KBL  | 2G bit           | 128Mx16      | DDR3   | 96ball  |                  |                                  |   |   |         | T/A                                       | T/A               |         |        |        |                 |   |
| axeme        | H2A301G1656BC6C      | 1G bit           | 64Mx16       | DDR2   | 84ball  |                  |                                  |   |   |         |   | T/A               |         |        |        |                 |   |
|              | H2A402G1666BFBC      | 2G bit           | 128Mx16      | DDR3   | 96ball  |                  | T/A                              | T/A   |   |         |   |                   |         |        |        |                 |   |
|              | H2A404G0866CD8C      | 4G bit           | 512Mx8       | DDR3   | 78ball  |                  |                                  |   | T/A                                     | T/A     |   |                   |         |        |        |                 |   |
| ISDT         | IL2BR20E8H           | 16G bit/2Channel | 256Mx32x2Ch  | LPDDR2 | 220ball |                  |                                  |   |   | T/A     |   |                   |         |        |        |                 |   |
|              |                      |                  |              |        |         |                  |                                  |   |   |         |   |                   |         |        |        |                 |   |
| Winbond      | W971GG6SB-18         | 1G bit           | 64Mx16       | DDR2   | 84ball  |                  |                                  |   |   |         |   | T/A               |         |        |        |                 |   |
|              | W631GG6KB-12         | 1G bit           | 64Mx16       | DDR3   | 96ball  |                  |                                  |   |   |         |   | T/A               |         |        |        |                 |   |
|              | W631GG6MB-12         | 1G bit           | 64Mx16       | DDR3   | 96ball  |                  |                                  |   |   |         |   | T/A               |         |        |        |                 |   |
|              | W632GG6KB-15         | 2G bit           | 128Mx16      | DDR3   | 96ball  |                  | T/A                              | T/A   | T/A                                     | T/A     |   |                   |         |        |        |                 |   |
| BIWIN        | 8WMD4X32H2A-16Gb     | 16G bit          | 512Mx32      | LPDDR4 | 200ball |                  |                                  |   |   |         |   |                   |         | T/A    |        |                 |   |
|              |                      |                  |              |        |         |                  |                                  |   |   |         |   |                   |         |        |        |                 |   |
| FORSEE       | NCLD3B2256M32        | 8G bit/ 2cs      | 256Mx32      | LPDDR3 | 178ball |                  |                                  |   |   | T/A     |   |                   |         | T/A    |        |                 |   |
|              | NCLD4C1MA256M32FC01L | 8G bit           | 256Mx32      | LPDDR4 | 200ball |                  |                                  |   |   |         |   |                   |         | T/A    |        |                 |   |
|              | NCLD4C2MA512M32FC02L | 16G bit          | 512Mx32      | LPDDR4 | 200ball |                  |                                  |   |   |         |   |                   |         | T/A    |        |                 |   |