Rockchip Solutions DDR SDRAM Support List

Ver 2.51

2022/1/17

NOTICE

◆ Symbol

Symbol	Description
√	**Fully Tested and Mass production**
T/A	**Sample Tested and Applicable**
N/A	**Not Applicable**
Empty	**Not be evaluated**

- The DRAM Part Number usually consists of two parts divided by '-', the first part contains memory type, density, orgainization, package, and the second part usually means data rate. It should be noticed that some vendor like ESMT,RAYSON,CXMT, BIWIN, Kingston, Forsee, Goldkey, the second part contains other important information.We don't care about the part represented of data rate.

- RockChip platform can support all the chips that match the first part of Part Number which marks '√' 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.

- 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

- THIS DOCUMENT IS PROVIDED “AS IS”. ROCKCHIP ELECTRONICS CO., LTD.(“ROCKCHIP”) DOES NOT PROVIDE ANY WARRANTY OF ANY KIND, EXPRESSED, IMPLIED OR OTHERWISE, WITH RESPECT TO THE ACCURACY, RELIABILITY, COMPLETENESS,MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR NON-INFRINGEMENT OF ANY REPRESENTATION, INFORMATION AND CONTENT IN THIS DOCUMENT. THIS DOCUMENT IS FOR REFERENCE ONLY. THIS DOCUMENT MAY BE UPDATED OR CHANGED WITHOUT ANY NOTICE AT ANY TIME DUE TO THE UPGRADES OF THE PRODUCT OR ANY OTHER REASONS.

◆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] Only support for RK3128.
[3] The DRAM's VDD and VDDQ should powered by 1.5V when it used on these SoCs.
[4] It can work stably on RK3399 with loader version rk3399_ddr_XXXMHz_v1.22.bin and trust version rk3399_bl31_ v1.28.elf. On RK3399pro, loader should be updated to rk3399pro_ddr_XXXMHz_v1.22.bin, trust version should be updated to rk3399pro_bl31_v1.28.elf .Or the later version than all above.
[5] Only after week code 1937 （means 2019, week 37th）can be used, the product with early week code may cause system crash or unstable.

week code

[6] The DDR must be boot from 400Mhz, please use XXXX_ddr_400MHz_vX.XX.bin to merge loader.
[7] On RK3568/RK3566, loader should be updated to rk3568_ddr_xxxMHz_v1.09.bin / rk3566_ddr_xxxMHz_v1.09.bin or later version.
[8] Only after week code 2101 （means 2021, week 01th）can be used, the product with early week code may cause system crash or unstable.

week code

[9] Only after week code 2118 （the third row, first four numbers means 2021, week 18th）can be used, the product with early week code may cause system crash or unstable.

week code


[10] Only after week code 022 （the fourth row, first three numbers means 2020, week 22th）can be used, the product with early week code may cause system crash or unstable.

week code


[11] For LPDDR4 and LPDDR4X unified product, platform only approve LPDDR4 mode, not guarantee LPDDR4X mode can work stably. So VDDQ must provide 1.1V not 0.6V.
[12] For LPDDR4X mode, this product cannot work stably.

◆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_20151129.pcb
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/LPDDR3	RK_EVB_RK3326_LP3S178P132SD4_V11_20180301FZB
PX30	DDR3/DDR3L/DDR4/LPDDR2/LPDDR3	RK_EVB_PX30_DDR4P416DD6_V10_20180301_FZB
RK3308	DDR3/DDR3L/DDR2/LPDDR2	RK_EVB_RK3308_DDR3P116SD4_V10_20180301
RK3399PRO	DDR3/DDR3L/LPDDR3/LPDDR4	RK3399Pro_Layout_Template_LP3S178P232_LP3S178P132_SD8_V10_20181120
RK1808/RK1806	DDR3/DDR3L/LPDDR3/DDR4	RK_EVB_RK1808_DDR3P216SD6_V10 2018-09-07_YWQ
RV1126/RV1109	DDR3/DDR3L/DDR4/LPDDR3/LPDDR4	RV1126/1109_EVB_DDR3216SD6_v10_20191219LXF
RK3566/RK3568	DDR3/DDR3L/DDR4/LPDDR4	RK_EVB1_RK3568_DDR4P216SD6_V10_20200908GXL
RK3588	LPDDR4/LPDDR5	RK_EVB1_RK3588_LP4XD20P232SD10H1_V10 2021-08-16_LINT

◆ 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
2.34	Add some supporting messages	2018.10.17
2.35	Add some supporting messages	2018.12.11
2.36	Add some supporting messages	2019.01.21
2.37	Add some supporting messages	2019.03.11
2.38	Add some supporting messages	2019.05.15
2.39	Add some supporting messages	2019.07.19
2.40	Add some supporting messages	2019.09.30
2.41	Add some supporting messages	2019.11.25
2.42	Add some supporting messages, switch column order of product name	2020.03.30
2.43	Add some supporting messages	2020.06.16
2.44	Add some supporting messages, modify IMD256M16R4ABD8LY,IMD512M16R4AZD8JY,H9HCNNNBPUMLHR, H9CCNNN8JTMLAR,H9CKNNNBPTMRLR, H9CKNNNCPTMRPR to N/A. Add "Product Status".	2020.09.02
2.45	Add some supporting messages, change the order of manufacture.	2020.11.17
2.46	Add some supporting messages	2021.01.29
2.47	Add some supporting messages	2021.04.16
2.48	Add some supporting messages	2021.07.20
2.49	Modify T/ A of K4U8E3S4AD-MG**, NT6AP256T32AV, NT6AP512T32AV to N/A on RV1126/RV1109 and fill Samsung /Nanya LPDDR4X on RV1126/RV1109 with N/A.	2021.07.23
2.50	Add some supporting messages, add note [8] [9] [10][11]	2021.10.22
2.51	Add some supporting messages	2022.01.17

See Infocenter, https://redmine.rock-chips.com/documents/49, for access to the latest support list.

Manufacturer	Part Number	Product Status	Density	Organization	Type	package	RK3588	RK3568	RK3566	RV1126/ RV1109	RV1108/ RK3308/ RK3308B-S	RK3228H	RK3399	RK3328	RK3326/ PX30	RK1808/ RK1806	RK3399PRO		RK3288	RK3368/RK3228A/RK3228B/RK3229/PX5	RK290x RK2918	RK2928/RK3028A/RK3128/PX3-SE	RK2926/RK3026/RK3036/RK3036G/RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	与RK兼容情况
																	CPU_RAM	NPU_RAM							
Micron	MT47H64M16HR-25		1G bit	64M×16	DDR2	84ball															√				
	MT41J128M8JP-15E:G(D9MNL)		1G bit	128M×8	DDR3	78ball															√				
	MT41K128M8DA-107:J(D9RDJ)		1G bit	128M×8	DDR3L	78ball																		T/A	
	MT41K64M16TW-107:J (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-125:K(D9PSH)		2G bit	256M×8	DDR3L	78ball													T/A		√	T/A	T/A	T/A	
	MT41K256M8DA-125:M(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-125:K(D9PTK)		2G bit	128M×16	DDR3L	96ball					T/A								T/A	T/A	√	T/A	T/A	T/A	
	MT41K128M16JT-107:K (D9PSZ)		2G bit	128M×16	DDR3L	96ball				T/A						T/A		T/A							
	MT41K512M8RH-125:E(D9QBJ)		4G bit	512M×8	DDR3L	78ball													T/A			T/A	T/A	T/A [3]	
	MT41K512M8RG-107:N(D9RVX)		4G bit	512M×8	DDR3L	78ball																		T/A	
	MT41K512M8DA-107:P(D9SGQ)		4G bit	512M×8	DDR3L	78ball																		T/A	
	MT41K256M16RE-15E:D(D9PBF)		4G bit	256M×16	DDR3L	96ball															√				
	MT41K256M16HA-125:E(D9PXV)		4G bit	256M×16	DDR3L	96ball													T/A		√	T/A	T/A	T/A	
	MT41K256M16LY-107:N(D9SDD)		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	T/A	T/A	
	MT41K256M16TW-107:P(D9SHD)		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	T/A				T/A	
	MT41K256M16TW-107 IT:P(D9SHG)		4G bit	256M×16	DDR3L	96ball							T/A				T/A								
	MT41K512M16HA-125:A(D9STQ)	EOL	8G bit	512M×16	DDR3L	96ball							√				T/A								
	MT41K512M16HA-107:A(D9SDQ)	EOL	8G bit	512M×16	DDR3L	96ball													T/A					T/A	
	MT41K512M16VRP-107IT:P(D9ZWN)		8G bit	512M×16	DDR3L	96ball													T/A						
	MT40A256M16GE-083E:B(D9TGQ)	EOL	4G bit	256M×16	DDR4	96ball						T/A		T/A		T/A		T/A							
	MT40A256M16GE-075E:B (D9TGS)		4G bit	256M×16	DDR4	96ball				T/A					T/A	T/A		T/A							
	MT40A512M16TB-062E:J(D9WWP)		8G bit	512M×16	DDR4	96ball		T/A	T/A	T/A						T/A		T/A							
	MT40A512M16JY-083E:B(D9TBK)		8G bit	512M×16	DDR4	96ball		T/A	T/A			T/A		T/A											兼容性好
	MT40A512M16LY-062E:E(D9WFJ)		8G bit	512M×16	DDR4	96ball				T/A															
	MT40A1G16WBU-083E:B(D9TPH)		16G bit	1024M×16	DDR4	96ball						T/A		T/A		T/A		T/A							
	MT40A1G16KD-062E:E(D9ZFW)		16G bit	1024M×16	DDR4	96ball		T/A	T/A	T/A					T/A										
	MT40A1G16TB-062E:F (D8CJX)		16G bit	1024M×16	DDR4	96ball		T/A	T/A																
	MT40A2G16SKL-062E:B(D9XQF)		32G bit	2048M×16	DDR4	96ball		T/A	T/A																
	MT42L128M32D1GU-25 WT:A(Z9QHG)		4G bit	128M×32	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	128M×32×2Ch	LPDDR2	216ball													T/A					N/A	
	MT52L256M32D1PF-107 WT:B(D9SRZ)		8G bit	256M×32	LPDDR3	178ball				T/A		T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A						
	MT52L512M32D2PF-107 WT:B(D9SSF)		16G bit	512M×32	LPDDR3	178ball						T/A	T/A	T/A	T/A		T/A		T/A	T/A					
	MT53E128M16D1DS-046 WT:A(D9WXT)		2G bit	128M×16	LPDDR4/LPDDR4X[1]	200ball				T/A															
	MT53E128M32D2DS- 046 WT:A(D9WXR)		4G bit	128M×32	LPDDR4/LPDDR4X[1]	200ball				T/A															
	MT53B256M32D1NP-062 WT:C(D9TFT)	EOL	8G bit	256M×32	LPDDR4	200ball							T/A				T/A								
	MT53E256M32D2DS-053 WT:B(D9WRB)		8G bit	256M×32	LPDDR4/LPDDR4X[1]	200ball			T/A	T/A			T/A [4]				T/A [4]								
	MT53E256M32D2FW-046 WT:B (D9ZKT)		8G bit	256M×32	LPDDR4/LPDDR4X[1]	200ball		T/A [2]	T/A [2]	T/A															
	MT53E384M32D2DS-053 WT:E (D9WRN)		12G bit	384M×32	LPDDR4/LPDDR4X[1]	200ball				T/A															
	MT53E384M32D2FW -046 WT:E (D8BBR)		12G bit	384M×32	LPDDR4/LPDDR4X[1]	200ball		T/A [2]	T/A [2]																
	MT53B512M32D2NP-062 WT:C(D9TFW)	EOL	16G bit	512M×32	LPDDR4	200ball							T/A				T/A								
	MT53D512M32D2DS-053 WT:D(D9WHZ)		16G bit	512M×32	LPDDR4/LPDDR4X[1]	200ball			T/A	T/A			T/A				T/A								
	MT53E512M32D2NP-046 WT:E (D9WGB)		16G bit	512M×32	LPDDR4/LPDDR4X[1]	200ball		T/A [2]	T/A [2]	T/A			T/A				T/A								
	MT53E512M32D2FW-046 WT:D (D9ZZL)		16G bit	512M×32	LPDDR4/LPDDR4X[1]	200ball		T/A [2]	T/A [2]																
	MT53D1024M32D4DT-053 WT:D(D9WHV)		32G bit	1024M×32	LPDDR4/LPDDR4X[1]	200ball		T/A [2]	T/A	T/A															
	MT53E2G32D4DE-046 WT:A (D9ZRD)		64G bit	2048M×32	LPDDR4/LPDDR4X[1]	200ball		T/A [2]	T/A [2]																
	MT53B512M64D4NK-053 WT:C(D9TGF)	EOL	32G bit	512M×64	LPDDR4	366ball							T/A				T/A								
	MT53E512M64D4NK-046 WT:D(D9XPK)		32G bit	512M×64	LPDDR4	366ball							T/A				T/A								

Manufacturer	Part Number	Product Status	Density	Organization	Type	package	RK3588	RK3568	RK3566	RV1126/ RV1109	RV1108/ RK3308/ RK3308B-S	RK3228H	RK3399	RK3328	RK3326/ PX30	RK1808/ RK1806	RK3399PRO		RK3288	RK3368/RK3228A/RK3228B/RK3229/PX5	RK290x RK2918	RK2928/RK3028A/RK3128/PX3-SE	RK2926/RK3026/RK3036/RK3036G/RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	与RK兼容情况
																	CPU_RAM	NPU_RAM							
Samsung	K4T1G164QE		1G bit	64M×16	DDR2	84ball															√				兼容性好 K3PE0E000M RZQ需要改为150ohm K3PE0E000A-XGC2 RZQ需要改为NC
	K4B1G0846G		1G bit	128M×8	DDR3	78ball													T/A		√			T/A	
	K4B1G1646I-*C**		1G bit	64M×16	DDR3	96ball				T/A	T/A														
	K4B1G1646I-*Y**		1G bit	64M×16	DDR3L	96ball				T/A	T/A														
	K4B2G0846C		2G bit	256M×8	DDR3	78ball															√				
	K4B2G0846F-*Y**		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	T/A	T/A	T/A	T/A	
	K4B2G1646F-*Y**		2G bit	128M×16	DDR3L	96ball				T/A	T/A	T/A		T/A	T/A	T/A		T/A	T/A	T/A		T/A	T/A	T/A	
	K4B4G0846E-*C**		4G bit	512M×8	DDR3	78ball					T/A	T/A		T/A	T/A					T/A					
	K4B4G1646B-*C**		4G bit	256M×16	DDR3	96ball													T/A		√	T/A	T/A	T/A	
	K4B4G1646Q-*Y**	EOL	4G bit	256M×16	DDR3L	96ball					T/A	T/A		√	T/A				T/A	T/A		T/A	T/A	T/A	
	K4B4G1646D-*Y**	EOL	4G bit	256M×16	DDR3L	96ball					T/A	T/A		√	T/A				T/A	T/A		T/A	T/A	T/A	
	K4B4G1646D-*C**	EOL	4G bit	256M×16	DDR3	96ball													T/A			T/A	T/A	T/A	
	K4W4G1646Q-*C**		4G bit	256M×16	DDR3	96ball													T/A					T/A	
	K4B4G1646E-*Y**		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	T/A		T/A	T/A	T/A	
	K4B4G1646E-*C**		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	
	K4B4G1646E-BMMA		4G bit	256M×16	DDR3L	96ball							T/A				T/A								
	K4B8G1646D-*Y**	EOL	8G bit	512M×16	DDR3L	96ball						T/A	√	T/A	T/A		√		T/A						
	K4A4G165WE-*C**		4G bit	256M×16	DDR4	96ball			T/A			T/A		T/A	T/A	T/A		T/A							
	K4A4G165WF-*C**		4G bit	256M×16	DDR4	96ball		T/A	T/A	T/A		T/A		√	T/A										
	K4A8G085WC-*C**		8G bit	1024M×8	DDR4	78ball		T/A	T/A																
	K4A8G165WB-*C**		8G bit	512M×16	DDR4	96ball		T/A	T/A	T/A		T/A		T/A		T/A		T/A							
	K4A8G165WC-*C**		8G bit	512M×16	DDR4	96ball		T/A	T/A	T/A						T/A		T/A							
	K4AAG165WA-*C**		16G bit	1024Mx16	DDR4	96ball		T/A	T/A	T/A						T/A		T/A							
	K4ABG165WA-MC**		32G bit	2048M×16	DDR4	96ball		T/A	T/A																
	K3PE0E000A-XGC2		16Gb/2Channel	256M×32×2Ch	LPDDR2	220ball													T/A					N/A	
	K3PE0E000M-XGC2		16Gb/2Channel	256M×32×2Ch	LPDDR2	216ball													T/A					N/A	
	K4E8E304ED-EGCC		8G bit	256M×32	LPDDR3	178ball										T/A		T/A	T/A	T/A					
	K4E8E304EE-EGCE		8G bit	256M×32	LPDDR3	178ball							T/A				T/A		T/A						
	K4E8E324EB-AGCF		8G bit	256M×32	LPDDR3	168ball														T/A					
	K4E8E324EB-EGCF		8G bit	256M×32	LPDDR3	178ball						T/A	T/A	T/A	T/A		T/A		T/A	T/A					
	K4E8E324ED-EGCG		8G bit	256M×32	LPDDR3	178ball							T/A			T/A	T/A	T/A							
	K3QF1F10DM-AGCE		8Gb/2Channel	128M×32×2Ch	LPDDR3	253ball													T/A						
	K3QF1F10EM-BGCF		8G bit	128M×32×2Ch	LPDDR3	216ball													T/A						
	K4E6E304EE-EGCE	EOL	16G bit	512M×32	LPDDR3	178ball						T/A		T/A	T/A				T/A	T/A					
	K4E6E304EB-EGCF		16G bit	512M×32	LPDDR3	178ball						T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A					
	K4E6E304EC-EG**		16G bit	512M×32	LPDDR3	178ball		T/A	T/A			T/A	T/A	T/A	T/A		T/A		T/A						
	K4E6E304ED-EG**		16G bit	512M×32	LPDDR3	178ball				T/A			T/A		T/A	T/A	T/A	T/A	T/A						
	K4EBE304EC-EG**		32G bit	1024M×32	LPDDR3	178ball				T/A		T/A		T/A	T/A										
	K3QF3F30BM-QGCF		16G bit	256M×32×2Ch	LPDDR3	216ball													T/A						
	K3QF3F30BM-BGCF		16G bit	256M×32×2Ch	LPDDR3	216ball													T/A						
	K4F4E3S4HF-MG**		4G bit	128M×32	LPDDR4	200ball				T/A															
	K4F8E304HB-MG**		8G bit	256M×32	LPDDR4	200ball				T/A			T/A				T/A								
	K4F8E3S4HD-MG**		8G bit	256M×32	LPDDR4	200ball		T/A [7]	T/A [7]	T/A			T/A				T/A								
	K4F2E3S4HM-MG**		12G bit	384M×32	LPDDR4	200ball			T/A [7]																
	K4F6E3S4HM-MG**		16G bit	512M×32	LPDDR4	200ball				T/A			T/A				T/A								
	K4F6E3S4HM-SG**		16G bit	512M×32	LPDDR4	200ball		T/A	T/A																
	K4FHE3D4HM-MG**		24G bit	768M×32	LPDDR4	200ball			T/A [7]																
	K4U8E3S4AD-MG**		8G bit	256M×32	LPDDR4X	200ball		T/A [7]	T/A [7]	N/A															
	K4U6E3S4AA-MG**		16G bit	512M×32	LPDDR4X	200ball		T/A	T/A	N/A															
	K4U6E3S4AB-MG**		16G bit	512M×32	LPDDR4X	200ball		T/A	T/A																
	K4UHE3D4AB-MG**		24G bit	768M×32	LPDDR4X	200ball		T/A	T/A																
	K4UBE3D4AA-MG**		32G bit	1024M×32	LPDDR4X	200ball	T/A	T/A [7]	T/A [7]	N/A															
	K4UBE3D4AB-MG**		32G bit	1024M×32	LPDDR4X	200ball		T/A	T/A																
	K4UCE3Q4AA-MG**		64G bit	2048M×32	LPDDR4X	200ball		T/A	T/A																
	K3RG2G20CM-MGCJ	EOL	32G bit	512M×64	LPDDR4	366ball							T/A [8]				T/A [8]								

Manufacturer	Part Number	Product Status	Density	Organization	Type	package	RK3588	RK3568	RK3566	RV1126/ RV1109	RV1108/ RK3308/ RK3308B-S	RK3228H	RK3399	RK3328	RK3326/ PX30	RK1808/ RK1806	RK3399PRO		RK3288	RK3368/RK3228A/RK3228B/RK3229/PX5	RK290x RK2918	RK2928/RK3028A/RK3128/PX3-SE	RK2926/RK3026/RK3036/RK3036G/RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	与RK兼容情况
																	CPU_RAM	NPU_RAM							
Hynix	H5PS1G63CFP		1G bit	64M×16	DDR2	84ball															√				
	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	
	H5TQ2G83FFR		2G bit	256M×8	DDR3	78ball																T/A	T/A		
	H5TQ2G83GFR	EOL	2G bit	256M×8	DDR3	78ball													T/A					T/A	
	H5TQ2G63BFR	EOL	2G bit	128M×16	DDR3	96ball															√				
	H5TQ2G63FFR	EOL	2G bit	128M×16	DDR3	96ball																T/A	T/A		
	H5TQ2G63GFR	EOL	2G bit	128M×16	DDR3	96ball					T/A	T/A		T/A	T/A				T/A	T/A		T/A	T/A	T/A	
	H5TC2G63GFR	EOL	2G bit	128M×16	DDR3L	96ball					T/A					T/A		T/A		T/A					
	H5TQ2G63DFR	EOL	2G bit	128M×16	DDR3	96ball													T/A		√			T/A	
	H5TQ4G83AFR	EOL	4G bit	512M×8	DDR3	78ball													T/A			T/A	T/A	T/A [3]	
	H5TC4G83AFR	EOL	4G bit	512M×8	DDR3L	78ball													T/A					T/A [3]	
	H5TQ4G83MFR	EOL	4G bit	512M×8	DDR3	78ball													T/A			T/A	T/A	T/A [3]	
	H5TC4G83BFR	EOL	4G bit	512M×8	DDR3L	78ball																T/A	T/A		
	H5TQ4G63MFR	EOL	4G bit	256M×16	DDR3	96ball													T/A		√	T/A	T/A	T/A	
	H5TQ4G63AFR	EOL	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	T/A	
	H5TC4G63AFR	EOL	4G bit	256M×16	DDR3L	96ball													T/A			T/A	T/A	T/A	
	H5TC4G63CFR	EOL	4G bit	256M×16	DDR3L	96ball					T/A	T/A		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		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	T/A	T/A	T/A					
	H5TQ4G63CFR	EOL	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	
	H5TC8G63AMR	EOL	8G bit	512M×16	DDR3L	96ball							T/A				T/A								
	H5TC8G63CMR	EOL	8G bit	512M×16	DDR3L	96ball													T/A						
	H5AN4G6NAFR	EOL	4G bit	256M×16	DDR4	96ball						T/A		T/A		T/A		T/A							
	H5AN4G6NBJR		4G bit	256M×16	DDR4	96ball				T/A		T/A		T/A		T/A		T/A							
	H5AN8G6NAFR	EOL	8G bit	512M×16	DDR4	96ball						T/A		T/A	T/A	T/A		T/A							兼容性好
	H5AN8G6NCJR		8G bit	512M×16	DDR4	96ball		T/A	T/A	T/A					T/A	T/A		T/A							
	H5AN8G6NDJR		8G bit	512M×16	DDR4	96ball		T/A	T/A	T/A		T/A		T/A	T/A										
	H5ANAG6NAMR		16G bit	1024M×16	DDR4	96ball		T/A	T/A	T/A					T/A	T/A		T/A							
	H5ANAG6NCMR		16G bit	1024M×16	DDR4	96ball		T/A	T/A	T/A															
	H5ANAG6NCJR		16G bit	1024M×16	DDR4	96ball		T/A	T/A			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	
	H9TKNNN8KDMPQR		8Gb/2Channel	128M×32×2Ch	LPDDR2	216ball																T/A [2]			
	H9TKNNNBPDMRAR		16Gb/2Channel	256M×32×2Ch	LPDDR2	220ball													T/A					N/A	
	H9CCNNN8JTALAR	EOL	8G bit	256M×32	LPDDR3	178ball													T/A						
	H9CCNNN8GTMLAR	EOL	8G bit	256M×32	LPDDR3	178ball						T/A	T/A	T/A	T/A		T/A		T/A						
	H9CCNNN8JTMLAR	EOL	8G bit	256M×32	LPDDR3	178ball						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	H9CCNNNBJTALAR	EOL	16G bit	512M×32	LPDDR3	178ball						T/A	T/A	T/A	T/A		T/A								
	H9CCNNNBLTALAR	EOL	16G bit	512M×32	LPDDR3	178ball						T/A		T/A	T/A				T/A						
	H9CCNNNBJTMLAR	EOL	16G bit	512M×32	LPDDR3	178ball						N/A	N/A	N/A			N/A		T/A	N/A	N/A	N/A	N/A	N/A	N/A
	H9CKNNNBPTMRLR	EOL	16G bit	512M×32	LPDDR3	216ball						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	H9CKNNNCPTMRPR	EOL	32G bit	1024M×32	LPDDR3	256ball						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	H9HCNNN8KUMLHR	EOL	8G bit	256M×32	LPDDR4	200ball							N/A				N/A								
	H9HCNNNBPUMLHR		16G bit	512M×32	LPDDR4	200ball							N/A				N/A								
	H9HCNNNBKUMLHR		16G bit	512M×32	LPDDR4	200ball				T/A			T/A				T/A								
	H9HCNNNBKUMLXR		16G bit	512M×32	LPDDR4	200ball			T/A				T/A				T/A								
	H9HCNNNCPUMLXR		32G bit	1024M×32	LPDDR4	200ball	T/A			T/A															
	H9HCNNNBKMMLHR		16G bit	512M×32	LPDDR4X	200ball			T/A	T/A															
	H9HCNNNCPMMLXR		32G bit/2cs	1024M×32	LPDDR4X	200ball		T/A [7]	T/A [7]	T/A															
	H9HCNNNFAMMLXR		64G bit	2048M×32	LPDDR4X	200ball		T/A	T/A																
	H9HKNNNDBUMUBR	EOL	24G bit	384M×64	LPDDR4	366ball							N/A				N/A								
	H9HKNNNCUUMUBR	EOL	32G bit	512M×64	LPDDR4	366ball							N/A				N/A								
	H9HKNNNCTUMUBR	EOL	32G bit	512M×64	LPDDR4	366ball							T/A				T/A								

Manufacturer	Part Number	Product Status	Density	Organization	Type	package	RK3588	RK3568	RK3566	RV1126/ RV1109	RV1108/ RK3308/ RK3308B-S	RK3228H	RK3399	RK3328	RK3326/ PX30	RK1808/ RK1806	RK3399PRO		RK3288	RK3368/RK3228A/RK3228B/RK3229/PX5	RK290x RK2918	RK2928/RK3028A/RK3128/PX3-SE	RK2926/RK3026/RK3036/RK3036G/RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	与RK兼容情况
																	CPU_RAM	NPU_RAM							
Nanya	NT5TU32M16CG-3C		512M bit	32M×16	DDR2	84ball															√				
	NT5TU32M16FG		512M bit	32M×16	DDR2	84ball					T/A														
	NT5TU64M16HG		1G bit	64M×16	DDR2	84ball					T/A														
	NT5CB64M16GP		1G bit	64M×16	DDR3	96ball					T/A									T/A			T/A		
	NT5CC64M16GP		1G bit	64M×16	DDR3L	96ball					T/A														
	NT5CB128M8DN		1G bit	128M×8	DDR3	96ball															√				
	NT5CC128M8DN		1G bit	128M×8	DDR3L	78ball													T/A		√			T/A	
	NT5CB128M8FN		1G bit	128M×8	DDR3	78ball													T/A					T/A	
	NT5CC128M8GN		1G bit	128M×8	DDR3L	78ball																		T/A	
	NT5CB256M8GN		2G bit	256M×8	DDR3	78ball													T/A		√	T/A	T/A	T/A	
	NT5CB256M8BN		2G bit	256M×8	DDR3	78ball													T/A		√	T/A	T/A	T/A	
	NT5CB256M8FN		2G bit	256M×8	DDR3	78ball													T/A		√	T/A	T/A	T/A	
	NT5CB256M8IN		2G bit	256M×8	DDR3	78ball					T/A	T/A		T/A	T/A					T/A					
	NT5CC256M8IN		2G bit	256M×8	DDR3L	78ball					T/A	T/A		T/A	T/A					T/A				T/A	
	NT5CB128M16BP		2G bit	128M×16	DDR3	96ball													T/A		√	T/A	T/A	T/A	
	NT5CB128M16HP		2G bit	128M×16	DDR3	96ball													T/A		T/A			T/A	
	NT5CC128M16BP		2G bit	128M×16	DDR3L	96ball															√				
	NT5CB128M16FP		2G bit	128M×16	DDR3	96ball													T/A		√	T/A	T/A	T/A	
	NT5CC128M16IP	EOL	2G bit	128M×16	DDR3L	96ball					T/A								T/A	T/A		T/A	T/A	T/A	
	NT5CB128M16IP	EOL	2G bit	128M×16	DDR3	96ball					T/A				T/A				T/A	T/A		T/A	T/A	T/A	
	NT5CB128M16JR		2G bit	128M×16	DDR3	96ball				T/A															
	NT5CC128M16JR		2G bit	128M×16	DDR3L	96ball				T/A	T/A	T/A		T/A	T/A	T/A		T/A	T/A	T/A					
	NT5CB512M8DN		4G bit	512M×8	DDR3	78ball					T/A	T/A		T/A	T/A					T/A					
	NT5CB512M8BN		4G bit	512M×8	DDR3	78ball													T/A			T/A	T/A	T/A [1]	
	NT5CC512M8CN		4G bit	512M×8	DDR3L	78ball													T/A			T/A	T/A	T/A [1]	
	NT5CC512M8DN		4G bit	512M×8	DDR3L	78ball					T/A	T/A		T/A	T/A					T/A				T/A	
	NT5CC512M8EN		4G bit	512M×8	DDR3L	78ball					T/A									T/A					
	NT5CB256M16BP		4G bit	256M×16	DDR3	96ball													T/A		√	T/A	T/A	T/A	
	NT5CB256M16CP	EOL	4G bit	256M×16	DDR3	96ball													T/A			T/A	T/A	T/A	
	NT5CB256M16DP	EOL	4G bit	256M×16	DDR3	96ball													T/A						
	NT5CB256M16EP		4G bit	256M×16	DDR3	96ball				T/A	T/A	T/A	T/A	T/A	T/A		T/A			T/A					
	NT5CC256M16CP	EOL	4G bit	256M×16	DDR3L	96ball													T/A		T/A	T/A	T/A	T/A	
	NT5CC256M16DP	EOL	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	T/A	
	NT5CC256M16EP		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	
	NT5CC256M16ER		4G bit	256M×16	DDR3L	96ball				T/A	T/A	T/A	T/A	T/A	T/A		T/A		T/A	T/A					
	NT5CC256M16ER-EKI		4G bit	256M×16	DDR3L	96ball							T/A				T/A								
	NT5AD256M16B2		4G bit	256M×16	DDR4	96ball						T/A		T/A		T/A		T/A							
	NT5AD256M16D4		4G bit	256M×16	DDR4	96ball			T/A	T/A		T/A		T/A	T/A	T/A		T/A							
	NT5AD256M16E4		4G bit	256M×16	DDR4	96ball		T/A	T/A																
	NT5AD512M16A4		8G bit	512M×16	DDR4	96ball										T/A		T/A							
	NT5AD512M16C4		8G bit	512M×16	DDR4	96ball			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			T/A	T/A	T/A							
	NT6CL128M32DM		4G bit	128M×32	LPDDR3	178ball				T/A			T/A			T/A	T/A	T/A							
	NT6CL256T32CM		8G bit	256M×32	LPDDR3	178ball						T/A	T/A	T/A	T/A	T/A	T/A	T/A							
	NT6CL256T32BM		8G bit	256M×32	LPDDR3	178ball						T/A	T/A	T/A	T/A		T/A		T/A	T/A					
	NT6CL256M32AM		8G bit	256M×32	LPDDR3	178ball				T/A		T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A					
	NT6CL512T32AM		16G bit	512M×32	LPDDR3	178ball				T/A		T/A [5]	T/A	T/A [5]			T/A		T/A [5]	T/A					
	NT6CL256T32AQ		8G bit	256M×32	LPDDR3	168ball														T/A					
	NT6AN256T32AV		8G bit	256M×32	LPDDR4	200ball							N/A				N/A								
	NT6AN1024F32AV		32G bit	1024M×32	LPDDR4	200ball		T/A	T/A																
	NT6AP256T32AV		8G bit	256M×32	LPDDR4X	200ball				N/A															
	NT6AP512T32AV		16G bit	512M×32	LPDDR4X	200ball				N/A															

兼容性好

Manufacturer	Part Number	Product Status	Density	Organization	Type	package	RK3588	RK3568	RK3566	RV1126/RV1109	RV1108/RK3308/RK3308B-S	RK3228H	RK3399	RK3328	RK3326/PX30	RK1808/RK1806	RK3399PRO		RK3288	RK3368/RK3228A/RK3228B/RK3229/PX5	RK290x RK2918	RK2928/RK3028A/RK3128/PX3-SE	RK2926/RK3026/RK3036/RK3036G/RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	与RK兼容情况
																	CPU_RAM	NPU_RAM							
CXMT	CXDQ2BFAMCG		4G bit	256M×16	DDR4	96ball			T/A	T/A		T/A [6]		T/A [6]											
	CXDQ3BFAMCG		8G bit	512M×16	DDR4	96ball			T/A	T/A		T/A [6]		T/A [6]											
	CXDQ3BFAM-CQ-A		8G bit	512M×16	DDR4	96ball			T/A																
	CXDB3ABAM-MK		8G bit	256M×32	LPDDR4/LPDDR4X [12]	200ball		T/A [7]	T/A [7]	T/A			T/A				T/A								
	CXDB4ABAM-MK		16G bit	512M×32	LPDDR4/LPDDR4X [12]	200ball		T/A [7]	T/A [7]	T/A			T/A				T/A								
	CXDB5CCAM-MK		32G bit	1024M×32	LPDDR4/LPDDR4X [12]	200ball		T/A	T/A																
GigaDevice	GDQ2BFAA-CE		4G bit	256M×16	DDR4	96ball		T/A	T/A	T/A					T/A										
	GDQ2BFAA-CJ		4G bit	256M×16	DDR4	96ball		T/A	T/A																
JHICC	CA4S4G16V-F9GNC		4G bit	256M×16	DDR4	96ball			T/A [8]																
ESMT	M14D1G1664A-1.8BG2S		1G bit	64M×16	DDR2	84ball					T/A														
	M15T1G1664A-DEBG2C		1G bit	64M×16	DDR3L	96ball				T/A	T/A														
	M15T1G1664A-DEBG2CS		1G bit	64M×16	DDR3L	96ball				T/A														T/A	
	M15T1G1664A-EFBG2S		1G bit	64M×16	DDR3L	96ball				T/A															
	M15T2G16128A-DEBG2L	EOL	2G bit	128M×16	DDR3L	96ball					T/A				N/A					T/A					
	M15T2G16128A-DEBG2LS		2G bit	128M×16	DDR3L	96ball				T/A	T/A				T/A	T/A		T/A	T/A	T/A					
	M15T2G16128A-DEBG2R		2G bit	128M×16	DDR3L	96ball				T/A					T/A										
	M15T4G16256A-DEBG2L	EOL	4G bit	256M×16	DDR3L	96ball						T/A		T/A	T/A										
	M15F4G16256A-DEBG2L	EOL	4G bit	256M×16	DDR3	96ball					N/A	N/A		N/A	N/A					N/A					
	M15T4G16256A-DEBG2R		4G bit	256M×16	DDR3L	96ball									T/A										
	M15T4G16256A-DEBG2G		4G bit	256M×16	DDR3L	96ball				T/A					T/A										
	M15T4G16256A-DEBG2S		4G bit	256M×16	DDR3L	96ball				T/A															
	M16U4G16256A-KJBG		4G bit	256M×16	DDR4	96ball				T/A					T/A										
	M16U4G16256A-QLBG		4G bit	256M×16	DDR4	96ball			T/A						T/A										
	M56Z8G32256A-SMBIG		8G bit	256M×32	LPDDR4	200ball				T/A															
UniIC	SCB15H1G160CF-13K		1G bit	64M×16	DDR3	96ball					T/A														
	SCB15H1G160AF-13K		1G bit	64M×16	DDR3	96ball					T/A														
	SCN13H2G160AF-13K		2G bit	128M×16	DDR3	96ball																	T/A		
	SCB13H2G160AF-11M		2G bit	128M×16	DDR3L	96ball					T/A									T/A					
	SCB15H2G160AF-13K	EOL	2G bit	128M×16	DDR3	96ball									T/A										
	SCB13H2G160EF-09N		2G bit	128M×16	DDR3L	96ball				T/A	T/A				T/A	T/A		T/A	T/A						
	SCB13H4G160AF-11M		4G bit	256M×16	DDR3L	96ball				T/A	T/A	T/A	T/A	T/A	T/A		T/A		T/A	T/A					
	HXB15H4G800AF-13K		4G bit	512M×8	DDR3	78ball					T/A									T/A					
	HXB13H4G160AF-13KT		4G bit	256M×16	DDR3	96ball					T/A								T/A	T/A		T/A	T/A		
	HXI15H4G160AF-13K		4G bit	256M×16	DDR3	96ball							T/A				T/A								
	SCB13H8G162BF-11M		8G bit	512M×16	DDR3L	96ball				T/A		T/A	T/A	T/A	T/A		T/A		T/A						
	SCB13H8G162BF-13KI		8G bit	512M×16	DDR3L	96ball							T/A				T/A								
	SCB12Q4G160AF-07Q		4G bit	256M×16	DDR4	96ball		T/A	T/A	T/A															
SCSemicon	HXB18T1G160AF-25D		1G bit	64M×16	DDR2	84ball															√				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
	HXB18T2G160AF-25D		2G bit	128M×16	DDR2	84ball															√				
	HXB15H2G800BF-15H		2G bit	256M×8	DDR3	78ball													T/A		N/A	T/A	N/A	T/A	
	HXB15H2G160CF-13K		2G bit	128M×16	DDR3	96ball																T/A			
	HXB15H4G800BF-15H		4G bit	512M×8	DDR3	78ball													T/A		N/A [3]	T/A	N/A	T/A [3]	
	HXB15H4G160BF-15H		4G bit	256M×16	DDR3	96ball													T/A		T/A			T/A	
Winbond	W9751G6KB-25		512M bit	32M×16	DDR2	84ball					T/A														
	W971GG6SB-18		1G bit	64M×16	DDR2	84ball					T/A														
	W631GG6KB-12		1G bit	64M×16	DDR3	96ball					T/A									T/A					
	W631GG6MB-12	EOL	1G bit	64M×16	DDR3	96ball					T/A														
	W631GU6NB-12		1G bit	64M×16	DDR3L	96ball					T/A [10]														
	W632GG6KB-15		2G bit	128M×16	DDR3	96ball													T/A			T/A	T/A	T/A	
	W632GG6NB-12		2G bit	128M×16	DDR3	96ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	W66BL6NBUAFI		2G bit	128M×16	LPDDR4	200ball				T/A															
	W66CL2NQUAFI		4G bit	128M×32	LPDDR4	200ball				T/A															
Etron Tech	EM68B16CWPA-25H		512M bit	32M×16	DDR2	84ball															√				台湾颗粒厂商，兼容性较好
	EM68B16CWQK-18H		512M bit	32M×16	DDR2	84ball					T/A														
	EM68B16CWQH-18H		512M bit	32M×16	DDR2	84ball					T/A														
	EM6GC16EWKG-12H		1G bit	64M×16	DDR3	96ball				T/A	T/A									T/A					
	EM6GC16EWKE-12H	EOL	2G bit	128M×16	DDR3	96ball					T/A														
	EM6GC16EWXD-12H	EOL	2G bit	128M×16	DDR3	96ball					T/A														
	EM6GD16EWKG-12H	EOL	2G bit	128M×16	DDR3	96ball					T/A				T/A					T/A					
	EM6GD16EWXF-12H	EOL	2G bit	128M×16	DDR3	96ball					T/A				T/A					T/A					
	EM6GD16EWBH-12H		2G bit	128M×16	DDR3	96ball										T/A		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	512M×8	DDR3	96ball																T/A	T/A		
	EM6GE16EWXC-12H		4G bit	256M×16	DDR3	96ball													T/A			T/A	T/A	T/A	
	EM6HE16EWXD-12H	EOL	4G bit	256M×16	DDR3L	96ball					T/A	T/A		T/A	T/A	T/A		T/A		T/A					
	EM6GE16EWXD-10H	EOL	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	T/A	T/A	
	EM6GE16EW5F-12H	EOL	4G bit	256M×16	DDR3	96ball						T/A		T/A	T/A										
	EM6HE16EW5F-12H	EOL	4G bit	256M×16	DDR3L	96ball						T/A		T/A	T/A										
	EM6HE16EWAKG-10H		4G bit	256M×16	DDR3L	96ball				T/A		T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A						
	EM6GE16EWAKG-10H		4G bit	256M×16	DDR3	96ball				T/A			T/A				T/A								
	EM6OE16NWAKA-08H		4G bit	256M×16	DDR4	96ball		T/A	T/A	T/A															

Manufacturer	Part Number	Product Status	Density	Organization	Type	package	RK3588	RK3568	RK3566	RV1126/ RV1109	RV1108/ RK3308/ RK3308B-S	RK3228H	RK3399	RK3328	RK3326/ PX30	RK1808/ RK1806	RK3399PRO		RK3288	RK3368/RK3228A/RK3228B/RK3229/PX5	RK290x RK2918	RK2928/RK3028A/RK3128/PX3-SE	RK2926/RK3026/RK3036/RK3036G/RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	
																	CPU_RAM	NPU_RAM							
Zentel	A3R12E40DBF-AH		512M bit	32M×16	DDR2	84ball					T/A														
	A3T1GF40CBF-HP		1G bit	64M×16	DDR3	96ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	A3T1GF40CBF-GM		1G bit	64M×16	DDR3	96ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	A3T2GF40BBF-GM		2G bit	128M×16	DDR3	96ball					N/A											T/A			
	A3T4GF40ABF-GM		4G bit	256M×16	DDR3	96ball						T/A		T/A	T/A										
ISSI	IS43TR16640B-125KBL		1G bit	64M×16	DDR3	96ball					T/A														
	IS43TR16128C-125KBL		2G bit	128M×16	DDR3	96ball					T/A				T/A	T/A		T/A		T/A					
	IS43TR16512BL-125KBLI		8G bit	512M×16	DDR3L	96ball							T/A				T/A					T/A			
πPM	PME810816CBR-G8DN		1G bit	64M×16	DDR2	84ball					T/A														
	PMF510816ABR-G8DN		1G bit	64M×16	DDR3	96ball															√				
	PMF511816ABR-G8DN		2G bit	128M×16	DDR3	96ball															√				
	PMF511816DBR-KADN		2G bit	128M×16	DDR3	96ball													T/A					T/A	
	PMF411816HBR-NCDN		2G bit	128M×16	DDR3L	96ball				T/A															
	PMF412816HBR-KADN		4G bit	256M×16	DDR3L	96ball									T/A										
	PMF512816BBR-KADN		4G bit	256M×16	DDR3	96ball													T/A					T/A	
	PMF512816DBR-KADN		4G bit	256M×16	DDR3	96ball													T/A			T/A	T/A	T/A	
	PMF512816HBR-KADN		4G bit	256M×16	DDR3	96ball													T/A [9]						
	PMF512816HBR-NCDN		4G bit	256M×16	DDR3	96ball				T/A															
	PMF412816FBR-KADN		4G bit	256M×16	DDR3L	96ball													T/A						
τ Memory	TMF42G6HBR-NCDN		2G bit	128M×16	DDR3L	96ball				T/A															
	TMF54G6HBR-KADN		4G bit	256M×16	DDR3	96ball													T/A [9]						
	TMF54G6HBR-NCDN		4G bit	256M×16	DDR3	96ball				T/A															
Essencore	I5TQ4G63EFR		4G bit	256M×16	DDR3	96ball						T/A		T/A	T/A										
	EL38NMAAA1-PBER		8G bit	256M×32	LPDDR3	178ball							T/A				T/A								
	EL4BPMBBB1-S4ER		16G bit	512M×32	LPDDR4	200ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SPECTEK	PE918-15E (PRN256M8V79DG8GQF-15E)		2G bit	256M×8	DDR3	78ball													T/A		T/A	T/A	T/A	T/A	
	PE936-15E (PRN256M8V89CG8GQF-15E)		2G bit	256M×8	DDR3	78ball													N/A		T/A	T/A	T/A	N/A	
	PEB08-15E (PRN512M8V80AG8RHF-15E)		4G bit	512M×8	DDR3	78ball													T/A			T/A	T/A	T/A [1]	
	PEB15-15E (PRN256M16V80AG8GPF-15E)		4G bit	256M×16	DDR3	96ball													T/A		T/A	T/A	T/A	T/A	
	PEB16-15E (PRM256M16V80AG8GPF-15E)		4G bit	256M×16	DDR3	96ball													T/A			T/A	T/A	T/A	
	~~PE017 (SUU256M16V90BG8LY-125TP)~~		~~4G bit~~	~~256M×16~~	~~DDR3~~	~~96ball~~																	~~T/A~~		
	PE039 (SUU256M16V90BG8LY-125TP)		4G bit	256M×16	DDR3	96ball					T/A									T/A					
	PE029 PRN256M16V00HG8GNF-125		4G bit	256M×16	DDR3	96ball				T/A					T/A										
	Z9QHG (SM128MX32U80MD1LGU-25FT)		4G bit	128M×32	LPDDR2	96ball													T/A					T/A	MICRON子品牌，兼容性良好
	PB047 (SS256M32V01MD1LPF-107BT)		8G bit	256M×32	LPDDR3	178ball						N/A	N/A	N/A	N/A										
	PB008 (SM512M322E0FD4LHL)		16G bit	512M×32	LPDDR3	178ball							T/A				T/A								
	PS006 (SU256M32Z01MD1BNP)		8G bit	256M×32	LPDDR4	200ball							N/A				N/A								
	PS007 (SU512M32Z01MD2BNP)		16G bit	512M×32	LPDDR4	200ball							T/A				T/A								
	(PS086) SU256M64Z00MD4DKN		16G bit	256M×64	LPDDR4	366ball							T/A				T/A								
	PS004 (SM512M64Z91MD4BNK)		32G bit	512M×64	LPDDR4	366ball							T/A				T/A								
	PS035 (SU512M64Z01MD4BNK)		32G bit	512M×64	LPDDR4	366ball							T/A				T/A								
	PS013 (SM512M64Z01MD4BNK)		32G bit	512M×64	LPDDR4	366ball							T/A				T/A								

Manufacturer	Part Number	Product Status	Density	Organization	Type	package	RK3588	RK3568	RK3566	RV1126/ RV1109	RV1108/ RK3308/ RK3308B-S	RK3228H	RK3399	RK3328	RK3326/ PX30	RK1808/ RK1806	RK3399PRO		RK3288	RK3368/RK3228A/RK3228B/RK3229/PX5	RK290x RK2918	RK2928/RK3028A/RK3128/PX3-SE	RK2926/RK3026/RK3036/RK3036G/RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	与RK兼容情况
																	CPU_RAM	NPU_RAM							
MIRA	P3R1GE4CFF-G8E		1G bit	64M×16	DDR2	84ball															√				
	P3R1GE3FGF-G8E		1G bit	128M×8	DDR2	84ball															√				
	P2P2GF4ALF-GGN		2G bit	128M×16	DDR3	96ball					T/A									T/A					
	P2P2GF4ALF-GJS		2G bit	128M×16	DDR3	96ball					T/A	T/A		T/A	T/A										
	P3P4GF3BLF-GGN		4G bit	512M×8	DDR3	78ball													N/A			T/A	N/A	N/A	
	P3P4GF4BLF-GGN		4G bit	256M×16	DDR3	96ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	P3P4GF4BLF-GJS		4G bit	256M×16	DDR3	96ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	P3P4GF4DMF-GJS		4G bit	256M×16	DDR3	96ball				T/A		T/A		T/A	T/A										
	P5M4GK4CMF-GMX		4G bit	256M×16	DDR4	96ball										T/A		T/A							
Kingston	D1216ECMDXGJD		2G bit	128M×16	DDR3L	96ball				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。
	D5128EETBPGGBU		4G bit	512M×8	DDR3	78ball													T/A			T/A	T/A	T/A	
	D2516EC4BXGGB	EOL	4G bit	256M×16	DDR3L	96ball					T/A [3]								T/A [3]	T/A [3]		T/A [3]	T/A [3]	T/A [3]	
	D2516ECMDXGJD		4G bit	256M×16	DDR3L	96ball				T/A	T/A	T/A		T/A	T/A	T/A		T/A	T/A	T/A					
	D2516JC4BXGJD		4G bit	256M×16	DDR3	96ball													T/A						
	B5116ECMDXGJD		8G bit	512M×16	DDR3L	96ball							T/A				T/A		T/A						
	D2516ACPCXGRK		4G bit	256M×16	DDR4	96ball		T/A	T/A	T/A					T/A										
	D5116AH8CXGUM		8G bit	512M×16	DDR4	96ball		T/A	T/A	T/A		T/A		T/A											
	D2532LA3WLGJA		8G bit	256M×32	LPDDR3	178ball										T/A		T/A		T/A					
	D2532LA6MLGJA		8G bit	256M×32	LPDDR3	178ball						T/A		T/A	T/A	T/A		T/A							
	KB23AADL3E08G		8G bit	512M×16	LPDDR3	178ball													T/A						
	D2516PC1CDGPLR		8G bit	256M×32	LPDDR4	200ball							T/A				T/A								
	B1621PC6FDGUKR		16G bit	512M×32	LPDDR4	200ball		T/A [7]	T/A [7]	T/A															
	Q5116PH1MDGPAR	EOL	16G bit	512M×32	LPDDR4	200ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	B5116PH3MDGPAR		16G bit	512M×32	LPDDR4	200ball				T/A			T/A				T/A								
	B1621XH5ADGTKR		16G bit	512M×32	LPDDR4X	200ball		T/A [7]	T/A [7]	T/A															
	B2421XC4FDGTKR		24G bit	768M×32	LPDDR4X	200ball		T/A	T/A																
	B3221XC5GDGTKR		32G bit	1024M×32	LPDDR4X	200ball		T/A [7]	T/A [7]	N/A															
FORESEE	F60C1A0002-M6		2G bit	128M×16	DDR3L	96ball				T/A	T/A				T/A	T/A		T/A	T/A	T/A		T/A			
	F60C1A0004-M7		4G bit	256M×16	DDR3L	96ball				T/A	T/A		T/A		T/A		T/A		T/A	T/A		T/A			
	F62C1A0004-M5		4G bit	256M×16	DDR4	96ball		T/A	T/A	T/A															
	FD4V10004-22		4G bit	256M×16	DDR4	96ball									T/A										
	FD45116ZSA062C		8G bit	512M×16	DDR4	96ball		T/A	T/A																
	NCLD3B1128M32		4G bit	128M×32	LPDDR3	178ball									T/A										
	NCLD3B2256M32		8G bit/ 2cs	256M×32	LPDDR3	178ball							T/A				T/A		T/A						
	NCLD4C1MA256M32		8G bit	256M×32	LPDDR4	200ball							T/A				T/A								
	NCLDXC1MG256M32		8G bit	256M×32	LPDDR4/LPDDR4X [11]	200ball		N/A	N/A	T/A			T/A				T/A								
	FL4C2001G-D9		8G bit	256M×32	LPDDR4	200ball				T/A															
	FLXC2002G-N2		16G bit	512M×32	LPDDR4/LPDDR4X [11]	200ball		T/A	T/A	T/A															
	FLXC2002G-26		16G bit	512M×32	LPDDR4/LPDDR4X [11]	200ball		T/A	T/A	T/A															
	NCLD4C2MA512M32	EOL	16G bit	512M×32	LPDDR4	200ball							T/A				T/A								
	NCLDXC1MC512M32		16G bit	512M×32	LPDDR4/LPDDR4X [11]	200ball							T/A				T/A								
	NCLDXC1MJ512M32		16G bit	512M×32	LPDDR4/LPDDR4X [11]	200ball		T/A [7]	T/A [7]	T/A			T/A				T/A								
BIWIN	BWPDD3X16A9B-04Gb		4G bit	256M×16	DDR3L	96ball				T/A	N/A		T/A				T/A								
	BWSD3X16N8B-04Gb		4G bit	256M×16	DDR3L	96ball				T/A															
	BWSDD4X16A9B-04Gb		4G bit	256M×16	DDR4	96ball		T/A	T/A	T/A															
	BW52L256M32D1PF		8G bit	256M×32	LPDDR3	178ball							T/A				T/A								
	BW52L512M32D2PF		16G bit	512M×32	LPDDR3	178ball										T/A		T/A		T/A					
	BWMD4X32H2A-08Gb		8G bit	256M×32	LPDDR4	200ball							N/A				N/A								
	BWMECX32H2A-08Gb		8G bit	256M×32	LPDDR4	200ball				T/A															
	BWMD4X32H2A-16Gb		16G bit	512M×32	LPDDR4	200ball							T/A				T/A								
	BWME9X32H2A-16Gb		16G bit	512M×32	LPDDR4	200ball			T/A				T/A				T/A								
	BWME9X32H2A-16Gb-x		16G bit	512M×32	LPDDR4X	200ball		T/A	T/A	T/A															
	BWSR8X32H2A-16Gb-x		16G bit	512M×32	LPDDR4X	200ball		T/A	T/A																
	BWSRSX32H2A-16Gb-x		16G bit	512M×32	LPDDR4X	200ball		T/A	T/A																
	BWME4X32H2A-24Gb-x		24G bit	768M×32	LPDDR4X	200ball		T/A	T/A	N/A															
	BWMEDX32H2A-32Gb-x		32G bit	1024M×32	LPDDR4X	200ball		T/A [7]	T/A [7]																
	BWSRSX32H2A-32G-x		32G bit	1024M×32	LPDDR4X	200ball		T/A	T/A																
RAYSON	RS128M16VRDK-93BT		2G bit	128M×16	DDR3L	96ball									T/A										
	RS256M16V0DB-107AT		4G bit	256M×16	DDR3	96ball																T/A			
	RS256M16ZADD-75DT		4G bit	256M×16	DDR4	96ball			T/A																
	RS128M32LD3D1LMZ-125BT		4G bit	128M×32	LPDDR3	178ball				T/A					T/A										
	RS256M32LD3D1LMZ-125BT		8G bit	256M×32	LPDDR3	178ball				T/A															
	RS128M32LZ4D1ANP-75BT		4G bit	128M×32	LPDDR4	200ball				T/A															
	RS256M32LZ4D1ANP-75BT		8G bit	256M×32	LPDDR4	200ball				T/A			T/A				T/A								
	RS512M32LZ4D2ANP-75BT		16G bit	512M×32	LPDDR4	200ball				T/A			T/A				T/A								
	RS512M32LM4D2BDS-53BT		16G bit	512M×32	LPDDR4/LPDDR4X [11]	200ball		T/A	T/A																
	RS768M32LB4D2BDS-53BT		24G bit	768M×32	LPDDR4/LPDDR4X [11]	200ball		T/A	T/A																
	RS1G32LF4D2BDS-53BT		32G bit	1024M×32	LPDDR4/LPDDR4X [11]	200ball		T/A	T/A																
	RS2G32LF4D4BDT-53BT		64G bit	2048M×32	LPDDR4/LPDDR4X [11]	200ball		T/A	T/A																
Dosilicon	FM38E16SAB-9MGD		2G bit	128M×16	DDR3L	96ball				T/A					T/A										
	FM38F16SBB-9MGD		4G bit	256M×16	DDR3L	96ball									T/A				T/A						

Manufacturer	Part Number	Product Status	Density	Organization	Type	package	RK3588	RK3568	RK3566	RV1126/RV1109	RV1108/RK3308/RK3308B-S	RK3228H	RK3399	RK3328	RK3326/PX30	RK1808/RK1806	RK3399PRO		RK3288	RK3368/RK3228A/RK3228B/RK3229/PX5	RK290x RK2918	RK2928/RK3028A/RK3128/PX3-SE	RK2926/RK3026/RK3036/RK3036G/RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	与RX兼容情况
																	CPU_RAM	NPU_RAM							
GCAI	GD81B32MJ0-41M2		8G bit	256M×32	LPDDR4	200ball				T/A															
	GD82D32MJ0-42M3		16G bit	512M×32	LPDDR4X	200ball			T/A																
	GDA2D32MJ0-42M6		24G bit	768M×32	LPDDR4X	200ball		T/A	T/A																
	GD82D32MJ0-42M7		32G bit	1024M×32	LPDDR4/LPDDR4X[1]	200ball		T/A [2]	T/A [2]																
ICMAX	IMD128M16R322J8LY		2G bit	128M×16	DDR3L	96ball									T/A										
	IMD256M16R30HG8GNF-107		4G bit	256M×16	DDR3	96ball							T/A		N/A		T/A								
	IMD256M16R324J8LY		4G bit	256M×16	DDR3L	96ball				T/A			T/A		T/A		T/A		T/A						
	IMD512M16R31AG8GPF		8G bit	512M×16	DDR3	96ball							T/A				T/A								
	IMD512M16R4DBD8LY		8G bit	512M×16	DDR4	96ball			T/A																
	IMD256M16R4ABD8LY		4G bit	256M×16	DDR4	96ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	IMD512M16R4AZD8JY		8G bit	512M×16	DDR4	96ball		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	IMH256M32Z1D1DNP		8G bit	256M×32	LPDDR4	200ball				T/A			T/A				T/A								
TMTC	TN4G16D3CSEP-EK		4G bit	256M×16	DDR3	96ball							T/A				T/A								
	TM8G32MD4LSA1-I4		8G bit	256M×32	LPDDR4	200ball							T/A				T/A								
	TH16G32MD4LQM1-I4		16G bit	512M×32	LPDDR4	200ball							N/A				N/A								
Goldkey	GH4061600HRL-1833		4G bit	256M×16	DDR3L	96ball						T/A		T/A	T/A										
	GE4062666HD		4G bit	256M×16	DDR4	96ball				T/A															
	GE8062666ND		8G bit	512M×16	DDR4	96ball			T/A																
	GE8062400HD-1833		8G bit	512M×16	DDR4	96ball										T/A		T/A							
Eorex	EM47DM1688SBA		2G bit	128M×16	DDR3	96ball															N/A				台湾颗粒厂商，兼容性较好
	EM47EM0888SBA-150		2G bit	256M×8	DDR3	78ball													T/A		T/A	N/A	N/A	T/A	
	EM47EM1688SBA-150		4G bit	256M×16	DDR3	96ball															T/A				
	EM47EM1688SBB-150A		4G bit	256M×16	DDR3	96ball													T/A			T/A	T/A	T/A	
	EM47FM0888SBA-150		4G bit	512M×8	DDR3	78ball																T/A	T/A		
	EM47FM0888SBA-150A		4G bit	512M×8	DDR3	78ball																T/A	T/A		
	EM47EM3288MBA-125		8G bit	256M×32	DDR3	136ball													T/A					T/A	
	EM45FM3288LBA-187F		16Gb/2Channel	256M×32×2Ch	LPDDR2	220ball													T/A					N/A	
axeme	H2A301G1656BC6C		1G bit	64M×16	DDR2	84ball					T/A	N/A	N/A	N/A	N/A		N/A		N/A	N/A		N/A	N/A	N/A	
	H2A401G1666BFBC		1G bit	64M×16	DDR3	96ball					T/A														
	H2A402G1666BFBC		2G bit	128M×16	DDR3	96ball																T/A	T/A		
	H2A404G1666CFMC		4G bit	256M×16	DDR3	96ball						T/A		T/A	T/A										
	H2A404G0866CD8C		4G bit	512M×8	DDR3	78ball													T/A					T/A	
Sinker	SNB2816S21PS13		2G bit	128M×16	DDR3L	96ball				T/A															
	SNB5616S21PS13		4G bit	256M×16	DDR3L	96ball				T/A					T/A										
SCY	D4A16G32D2V-DC		16G bit	512M×32	LPDDR4/LPDDR4X[1]	200ball				T/A															
Hosin	HG-DR30232-62001		4G bit	256M×16	DDR3L	96ball							T/A				T/A		T/A						
	HG512M32D2PDA1-H2		16G bit	512M×32	LPDDR4X	200ball		T/A	T/A																
	HG768M32D4LQM1-H1		24G bit	768M×32	LPDDR4	200ball		N/A	N/A	N/A															
ProMOS	V59C1G01168QBASXJ25		1G bit	64M×16	DDR2	84ball						N/A	N/A	N/A	N/A		N/A		N/A	N/A	√	N/A	N/A	N/A	
	V73CAG01808RA JI9		1G bit	128M×8	DDR3	78ball															√				
	V59C1G02168QB		2G bit	128M×16	DDR2	84ball						N/A	N/A	N/A	N/A		N/A		N/A	N/A	√	N/A	N/A	N/A	
Q-CHIP	QN3R256M16M-16G		4G bit	256M×16	DDR3	96ball													T/A						
Netsol	S5RG2G20CMS-MGCJ		32G bit	512M×64	LPDDR4	366ball							N/A				N/A								
MT.MOSET	ED3E25608CE-P9		2G bit	256M×8	DDR3	78ball													T/A		T/A	T/A	N/A	T/A	
SMART	S4B2G0846C-HYH9		2G bit	256M×8	DDR3	78ball													T/A					T/A	巴西颗粒，国内用的不多
	S4B2G0846D-HYK0		2G bit	256M×8	DDR3	78ball													T/A					T/A	
WINS	VP5TQ1G0835-F9		1G bit	128M×8	DDR3	78ball															√				
	VP5TQ2G1635FFP-F9		2G bit	128M×16	DDR3	96ball															√	N/A	N/A		
	VP5TQ2G0835L-F9		2G bit	256M×8	DDR3	78ball															√				
ISDT	IL2BR20E8H		16Gb/2Channel	256M×32×2Ch	LPDDR2	220ball													T/A						