Rockchip Solutions DDR SDRAM Support List 2019/5/15

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Ver 2.38

2019/5/15

• 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

• Symbol

	Description
	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_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/LPDDR2/LPDDR3/LPDDR4	RK3399Pro_Layout_Template_LP3S178P232_LP3S178P132_SD8_V10_2018112
RK1808	DDR3/DDR3L/LPDDR3/DDR4	RK_EVB_RK1808_DDR3P216SD6_V10 2018-09-07_YWQ

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.

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 '\' or T/A', and do not nee d 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 DRAM's VDD and VDDQ should powered by 1.5V when it used on these SoCs.



						RK290x		RK2926/RK3026/	RK3066/RK3066A/PX2		RK3368/RK32	RV1108/				RK3326/		RK339	99PRO	
Manufacturer	Part Number	Density	Organization	Туре	package	RK2918	28A/RK3128/ PX3-SE	RK3036/RK3036G /RK3126	RK3168/RK3188/PX3	RK3288	28A/RK3228B /RK3229/PX5	RK3308	RK3228H	RK3399	RK3328	PX30	RK1808	CPU_RAM	NPU_RA M	与RK兼容情况
	E1116AEBG-8E-F	1G bit	64M×16	DDR2	84ball	√														
	EDJ1108DJBG	1G bit	128M x 8	DDR3	78ball	√														
	EDJ2108DEBG	2G bit	256M×8	DDR3	78ball	√	T/A	T/A	√	√,										
	EDJ2108BDBG	2G bit	256M×8 256M×8	DDR3 DDR3L	78ball 78ball	√	T/A	N/A	T/A	√ T/A										
	EDJ2108EDBG EDJ2116DEBG	2G bit 2G bit	256M×8 128M×16	DDR3L DDR3	96ball	- V			I/A	1/A										
	EDJ2116EEBG	2G bit	128M×16	DDR3L	96ball	T/A														
	EDJ4208BBBG	4G bit	512M×8	DDR3	78ball	-,,,,	T/A	T/A	T/A [1]	T/A										
	EDJ4208EFBG	4G bit	512M×8	DDR3L	78ball		T/A	T/A	T/A [1]	T/A										
	EDJ4208EBBG	4G bit	512M×8	DDR3L	78ball		T/A	N/A	T/A (1)	T/A										除个别老款颗粒如:
Elpida	EDJ4206EBBG EDJ4216BASE	4G bit	256M×16	DDR3	96ball	1	1/1	IV/A	1/A**	1//										EDJ2108BDBG对pcb要
Lipida	EDJ4216BBBG	4G bit	256M×16	DDR3	96ball	V			√	√										求偏高外总体兼容情况
	EDJ4216BBG	4G bit	256M×16	DDR3L	96ball	T/A			T/A	T/A										良好
	EDJ4216EFBG	4G bit	256M×16	DDR3L	96ball	T/A	T/A	T/A	T/A	T/A										
	EDB4032B2MA	4Gb/2CS	64M×32×2pcs	LPDDR2	134ball				T/A	T/A										
	EDB8132B3MA	8Gb/2CS	128M×32×2pcs	LPDDR2	134ball				T/A	T/A										
	EDBM164B1PD-1D-I	12Gb/2channel	256Mx32+128Mx32	LPDDR2	220ball				N/A	T/A										
	EDF8132A3MA-GD-F-D	8Gb	256Mx32	LPDDR3	178ball					T/A										
	EDF8132A3MA-GD-F-D EDF8132A1MC-GD-F-D	8Gb	256Mx32	LPDDR3	178ball					T/A										
	FA232A1MA-GD-F	16Gb	512M×32	LPDDR3	178ball					T/A										
	EDFA232A2MA-GD-F-D	16Gb	512M×32	LPDDR3	178ball					T/A										
	The state of the s	1000	JILIIIJL		2700011	1				.,										
	MT47H64M16HR-25	1G bit	64M×16	DDR2	84ball	√														
	MT41J128M8JP-15E:G(D9MNL)	1G bit	128M x 8	DDR3	78ball	✓														
	MT41K128M8DA-107:J(D9RDJ)	1G bit	128M x 8	DDR3L	78ball				T/A											
	MT41K64M16TW-107:J (D9SFT)	1G bit	64M×16	DDR3L	96ball							T/A								
	MT41J128M16HA-15E:D(D9LGQ) MT41J256M8HX-15E:D(D9LGK)	2G bit 2G bit	128M×16 256M×8	DDR3 DDR3	96ball 78ball	√														
	MT41X256M8HX-15E:D(D9LGK) MT41X256M8DA-125:K(D9PSH)	2G bit 2G bit	256M×8	DDR3L	78ball	√	T/A	T/A	T/A T/A	T/A										
	MT41K256M8DA-125:K(D9PSH) 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	- '/ <u>`</u>	1/8	1/8	1/4	1/4										
	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	
	MT41K512M8RH-125:E(D9QBJ)	4G bit	512M×8	DDR3L	78ball		T/A	T/A	T/A [1]	T/A										
	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										
Micron	MT41K256M16LY-107:N(D9SDD)	4G bit	256Mx16	DDR3L	96ball		T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A		T/A		Alle alto Ad. Aco
WICTOIL	MT41K256M16TW-107:P(D9SHD)	4G bit	256Mx16	DDR3L	96ball				T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	兼容性好
	MT41K256M16TW-107 IT:P(D9SHG) MT41K512M16HA-125:A(D9STQ)	4G bit 8G bit	256Mx16 512Mx16	DDR3L DDR3L	96ball 96ball		1				1			T/A √		_		T/A		
	MT41K512M16HA-125:A(D9STQ) MT41K512M16HA-107:A(D9SDQ)	8G bit	512MX16 512Mx16	DDR3L	96ball				T/A	T/A				· ·				1/A		
	MT40A256M16GE-083E:B(D9TGQ)	4G bit	256Mx16	DDR4	96ball				1/5	1/4			T/A		T/A		T/A		T/A	
	MT40A256M16GE-075E:B (D9TGS)	4G bit	256Mx16	DDR4	96ball								.,		.,		T/A		T/A	
	MT40A512M16JY-083E:B(D9TBK)	8G bit	512Mx16	DDR4	96ball	1							T/A		T/A	1				
ĺ	MT40A1G16WBU-083E:B(D9TPH)	16G bit	1Gx16	DDR4	96ball								T/A		T/A					
	MT42L128M32D1GU-25 WT:A(Z9QHG)	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/0	NIZA	T/A	T/A	T/A	T/A	T/A	T/A	T/A	
	MT52L512M32D2PF-107 WT:B(D9SSF) MT53B256M32D1NP-062 WT:C(D9TFT)	16G bit 8G bit	512Mx32 256Mx32	LPDDR3 LPDDR4	178ball 200ball					T/A	T/A	N/A	T/A	T/A	T/A	T/A		T/A		
l	MT53E256M32D2DS-053 WT:B(D9WRB)	8G bit	256Mx32 256Mx32	LPDDR4	200ball									N/A				N/A		
l	MT53B512M32D2NP-062 WT:C(D9TFW)	16G bit	512M×32	LPDDR4	200ball									T/A				T/A		
	MT53D512M32D2DS-053 WT:D(D9WHZ)	16G bit	512M×32	LPDDR4	200ball									T/A				T/A		
l	MT53B512M64D4NK-053 WT:C(D9TGF)	32G bit	512M×64	LPDDR4	366ball									T/A				T/A		
											1									
					-	1	1				1	L				1				
	1				1				1		1									



# # # # # # # # # # # # #	Part Number H5P51G63CFP H5P51G63EFR H5TQ1G83DFR H5TQ1G83TFR H5TQ2G83TFR H5TQ2G83EFR H5TQ2G83EFR	Density 1G bit 1G bit 1G bit 1G bit 1G bit	Organization 64M×16 64M×16	Type DDR2	package	RK290:	28A/RK3128/ PX3-SE	RK3036/RK3036G	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	28A/RK3228B	RV1108/ RK3308		RK3399	RK3328	RK3326/ PX30	RK1808	CDII DAM	NPU_RA	与RK兼容情况
	HSPS1G63EFR HSTQ1G83DFR HSTQ1G83TFR HSTQ2G83CFR HSTQ2G83FR	1G bit 1G bit 1G bit	64M×16	DDR2				/RK3126	KK2100/KK2100/LY2		/RK3229/PX5							CLO_KMINI		-Junior House
	HSPS1G63EFR HSTQ1G83DFR HSTQ1G83TFR HSTQ2G83CFR HSTQ2G83FR	1G bit 1G bit 1G bit	64M×16		84ball	√	PA3-3E	/RK3120			/RR3229/PA3								IVI	-
H H H H H H H H	HSTQ1G83DFR HSTQ1G83TFR HSTQ2G83CFR HSTQ2G83BFR	1G bit 1G bit		DDR2	84ball	√														
H H H H H	HSTQ1G83TFR HSTQ2G83CFR HSTQ2G83BFR	1G bit	128M×8	DDR3	78ball	· ·			T/A	T/A										
H H H H	H5TQ2G83CFR H5TQ2G83BFR		128M×8	DDR3	78ball	√			-7											
<u>н</u> н н	H5TQ2G83BFR	2G bit	256M×8	DDR3	78ball	· ·	✓	√	√	√										
H H H		2G bit	256M×8	DDR3	78ball	T/A	T/A	T/A	V	√										
H		2G bit	256Mx8	DDR3	78ball	T/A	T/A	T/A	T/A	T/A										
Н	H5TQ2G83FFR	2G bit	256Mx8	DDR3	78ball		T/A	T/A	,											
T-1	H5TO2G83GFR	2G bit	256Mx8	DDR3	78ball			,	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	T/A	T/A		T/A	T/A				
	H5TC2G63GFR	2G bit	128M×16	DDR3L	96ball						T/A	T/A					T/A		T/A	
P	H5TQ2G63DFR	2G bit	128M×16	DDR3	96ball	- √			T/A	T/A										
	H5TQ4G83AFR	4G bit	512M×8	DDR3	78ball		T/A	T/A	T/A [1]	T/A										
	H5TC4G83AFR	4G bit	512M×8	DDR3L	78ball		,,,,	,,,,	T/A [1]	T/A										
<u> </u>		4G bit	512Mx8	DDR3	78ball		T/A	T/A		T/A						1				
	H5TQ4G83MFR			DDR3 DDR3I			T/A	T/A	T/A ^[1]	1/A										
	H5TC4G83BFR	4G bit 4G bit	512Mx8 256M×16	DDR3L DDR3	78ball 96ball	,			7/4	T/A										
	H5TQ4G63MFR H5TO4G63AFR	4G bit	256M×16 256Mx16	DDR3	96ball	√ T/A	T/A T/A	T/A T/A	T/A T/A	T/A										
			256MX16 256MX16			I/A				T/A	T/A	T/A	T/A	T/A	T/A	T/A		T/A		
	H5TC4G63AFR	4G bit		DDR3L	96ball		T/A	T/A	T/A	T/A	T/A	T/A	T/A		T/A	T/A				
	H5TC4G63CFR H5TC4G63EFR	4G bit 4G bit	256Mx16 256Mx16	DDR3L DDR3L	96ball 96ball				T/A	T/A	T/A T/A	T/A	T/A	T/A	T/A	T/A		T/A		
		4G bit	256Mx16	DDR3L DDR3	96ball				T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	
	H5TQ4G63EFR H5TO4G63CFR	4G bit	256Mx16	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	I/A	
	HSTC8G63AMR	8G bit	512M×16	DDR3L	96ball		I/A	I/A	I/A	I/A	I/A	I/A	I/A	T/A	I/A	I/A		T/A		
	H5TC8G63CMR	8G bit	512M×16	DDR3L	96ball					T/A				1/4				1/A		
	H5AN4G6NAFR	4G bit	256Mx16	DDR3L DDR4	96ball					1/A			T/A		T/A					
	H5AN4G6NBJR	4G bit	256Mx16	DDR4	96ball								T/A		T/A					
	H5AN8G6NAFR	8G bit	512Mx16	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										
	H9TKNNN8KDMPOR	8Gb/2Channel	128Mx32x2Ch	LPDDR2	216ball		T/A [5]		-,/-	-,-										
	H9TKNNNBPDMRAR	16Gb/2Channel	256Mx32x2Ch	LPDDR2	220ball	_	1/A		N/A	T/A										
	H9CCNNN8JTALAR	8Gb	256Mx32	LPDDR2	178ball				17/0	T/A										
	H9CCNNN8GTMLAR	8Gb	256Mx32	LPDDR3	178ball	_				T/A			T/A	T/A	T/A	T/A		T/A		
	H9CCNNN8JTMLAR	8Gb	256Mx32	LPDDR3	178ball					1/4	N/A		N/A	N/A	N/A	1/4		N/A		
	H9CCNNNBJTALAR	16Gb	512M×32	LPDDR3	178ball	_					14/M		T/A	T/A	T/A	T/A		T/A		
	H9CCNNNBLTALAR	16Gb	512M×32	LPDDR3	178ball	_				T/A			T/A	-/^	T/A	T/A		-/^		
	H9CCNNNBJTMLAR	16Gb	512M×32	LPDDR3	178ball	_				T/A	N/A		N/A	N/A	N/A	-//		N/A		
	H9CKNNNBPTMRLR	16Gb	512M×32	LPDDR3	216ball					-//-	N/A		N/A	N/A	N/A			N/A		
	H9CKNNNCPTMRPR	32Gb	1024Mx32	LPDDR3	256ball	_					N/A		N/A	N/A	N/A			N/A		
	H9HCNNN8KUMLHR	8Gb	256M×32	LPDDR4	200ball						,		14/21	N/A	14/24			N/A		
	H9HCNNNBPUMLHR	16Gb	512M×32	LPDDR4	200ball	_								T/A				T/A		
	H9HKNNNDBUMUBR	24Gb	384M×64	LPDDR4	366ball									N/A				N/A		
	H9HKNNNCUUMUBR	32Gb	512M×64	LPDDR4	366ball									N/A				N/A		
	H9HKNNNCTUMUBR	32Gb	512M×64	LPDDR4	366ball									T/A				T/A		
	IJIMA WALLEY ON OUR	3200	212141 0-0-1	E. DDR4	Jooddil	_								-,,				-,,		



						RK290x		RK2926/RK3026/			RK3368/RK32	RV1108/				RK3326/		RK339	99PRO	
anufacturer	Part Number	Density	Organization	Туре	package	RK2918		RK3036/RK3036G	RK3168/RK3188/PX3	RK3288	28A/RK3228B	RK3308	RK3228H	RK3399	RK3328	PX30	RK1808	CPU RAM	NPU_RA	与RK兼容情况
	NT5TU32M16CG-3C	512M bit	32M×16	DDR2	84hall	√	PX3-SE	/RK3126	, , .		/RK3229/PX5								М	
	NT5TU32M16CG-3C	512M bit	32M×16	DDR2	84ball	V						T/A								
	NTSTU64M16HG	1G bit	64M×16	DDR2	84ball							T/A								
	NT5CB64M16GP	1G bit	64M×16	DDR3	96ball			T/A			T/A	T/A								
	NT5CB128M8DN	1G bit	128M×8	DDR3	96ball	√		1/6			1/4	1//								
	NT5CC128M8DN	1G bit	128M×8	DDR3I	78ball	V			T/A	T/A										
	NT5CB128M8FN	1G bit	128Mx8	DDR3	78ball	V			T/A	T/A										
	NT5CC128M8GN	1G bit	128Mx8	DDR3L	78ball				T/A	1/A										
	NT5CB256M8GN	2G bit	256M×8	DDR3L DDR3	78ball	√	T/A	T/A	T/A	T/A										
	NT5CB256M8BN	2G bit	256M×8	DDR3	78ball	V	T/A	T/A	T/A	T/A										
	NT5CB256M8FN	2G bit	256M×8	DDR3	78ball	V	T/A	T/A	T/A	T/A										
	NT5CB256M8IN	2G bit	256M×8	DDR3	78ball	V	1/A	I/A	I/A	I/A	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	1/A	1/A	1/A		1/A	1/A				
	NT5CB128M16HP	2G bit	128M×16	DDR3	96ball	T/A	1/4	1/A	T/A	T/A		_				_	_			
	NT5CC128M16BP	2G bit	128M×16	DDR3L	96ball	I/A √			1/A	I/A										
	NT5CE128M16EP	2G bit	128M×16	DDR3L	96ball	V	T/A	T/A	T/A	T/A		_				_	_			
	NT5CC128M16IP	2G bit	128M×16	DDR3L	96ball	V	T/A	T/A	T/A	T/A	T/A	T/A				_				
	NT5CE128M16IP	2G bit	128M×16	DDR3L DDR3	96ball															
	NT5CC128M16JR		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	
	NTSCE128M16JR NTSCB512M8DN	2G bit 4G bit		DDR3L DDR3	960aii 78ball					T/A	T/A T/A	T/A T/A	T/A T/A		T/A T/A	T/A	T/A		T/A	
			512M×8						(9)		I/A	I/A	I/A		I/A	I/A				
	NT5CB512M8BN	4G bit	512M×8	DDR3	78ball		T/A	T/A	T/A ^[1]	T/A										
Nanva	NT5CC512M8CN	4G bit	512M×8	DDR3L	78ball		T/A	T/A	T/A [1]	T/A										兼容性
•	NT5CC512M8DN	4G bit	512M×8	DDR3L	78ball				T/A		T/A	T/A	T/A		T/A	T/A				AIR LI LIA
	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	4G bit	256M×16	DDR3	96ball		T/A	T/A	T/A	T/A										
	NT5CB256M16DP	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		
	NT5CC256M16CP	4G bit	256M×16	DDR3L	96ball	T/A	T/A	T/A	T/A	T/A										
	NT5CC256M16DP	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		
	NT5CC256M16ER-EKI	4G bit	256M×16	DDR3L	96ball									T/A				T/A		
	NT6TL128M32AQ	4G bit	128Mx32	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	128Mx32	LPDDR3	178ball					T/A										
	NT6CL128M32CM	4G bit	128Mx32	LPDDR3	178ball									T/A			T/A	T/A	T/A	
	NT6CL256T32CM	8G bit	256M×32	LPDDR3	178ball					1			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	N/A	T/A	T/A	T/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					
	NT5AD256M16D4	4G bit	256M×16	DDR4	96ball								T/A		T/A	T/A	T/A		T/A	
	NT5AD512M16A4	8G bit	512Mx16	DDR4	96ball												T/A		T/A	
								1												



Miles	Manufacturer	Part Number	Density	Organization	Туре	package	RK290x	RK2928/RK30	RK2926/RK3026/	RK3066/RK3066A/PX2	RK3288	RK3368/RK32 28A/RK3228B	RV1108/	BK3228H	RK3399	RK3328	RK3326/	RK1808	RK339	9PRO	与DK 善灾情况
Processor Proc						,	RK2918	PX3-SE	/RK3126	RK3168/RK3188/PX3	KKJ200		RK3308	KKJZZOII	KKJJJJ	KKJJ20	PX30	KK1000 C	PU_RAM	M M	が明むまれた
## PRINCIPAL COLOR 15 15 15 15 15 15 15 1										T/A	T/A										
Marchester 1							•			1/6	1/5		T/A								
Backbard School	l.	K4B1G1646I-xYxx	1G bit		DDR3L								T/A								
March Marc		K4B2G0846C K4B2G0846F-xYxx	2G bit 2G bit	256M×8 256M×8	DDR3	/8ball 78ball	٧			T/A	T/A										
Management Man		K4B2G1646C	2G bit	128M×16	DDR3	96ball	√			.,,,	1,7.4										
Companies And							T/A	T/A	T/A			T/A	T/A	T/A		T/A	T/A				
Description of the content of the		K4B2G1646Q K4B2G1646F-xYxx					1/A		T/A	T/A								T/A		T/A	
Materials Mate								,				T/A	T/A	T/A		T/A	T/A			·	
Miles Mile		K4B4G1646B-xCxx	4G bit				- √		T/A			T/Δ	T/Δ	T/Δ		T/Δ	T/Δ				
Controlled Control Con		K4B4G1646D-xYxx	4G bit	256M×16	DDR3L	96ball		T/A	T/A	T/A	T/A										
March Marc		K4B4G1646D-xCxx	4G bit		DDR3			T/A	T/A	T/A	T/A										
Management Man		K4B4G1646E-xYxx						T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A		T/A		
Mail Confession Mail Confe		K4B4G1646E-xCxx	4G bit	256M×16	DDR3	96ball		T/A		T/A	T/A	T/A	T/A					T/A		T/A	兼容性好
### AMASSES SECTION COLUMN TO THE PROPERTY OF											T/A			T/A		Τ/Δ	Τ/Δ				K3PE0E000M RZQ需要 改为150ohm
Control Cont	Sumsung	K4A4G165WE-xCxx									-,			T/A		T/A			- /		K3PE0E000A-XGC2 RZQ
Margin Sect														T/A		T/A		T/A		T/A	需要改为NC
STREETING ASC SECULATION STREET SECURATION SECURATION STREET SECURATION SECURATION SECURITION SECU		K3PE0E000A-XGC2	16Gb/2Channel	256Mx32x2Ch	LPDDR2	220ball												1/A		1/8	
GREEN DESCRIPTION 1990 1		K3PE0E000M-XGC2	16Gb/2Channel	256Mx32x2Ch	LPDDR2	216ball				N/A			NICE								
GREEN ACT Big Separate Color Separate Separa				256Mx32 256Mx32	LPDDR3	1/8ball 178ball						T/A	N/A		T/A				T/A		
Company Action Company Action Company		K4E8E324EB-AGCF	8Gb	256Mx32	LPDDR3	168ball						T/A	N/A								
Properties Pro		K4E8E324EB-EGCF			LPDDR3							T/A	N/A	T/A	T/A	T/A	T/A		T/A		
Description of Color		K3QF1F10EM-BGCF																			
RESISTANT SECT SECTI SECT SECT SECT SECT SECT SECT SECTION		K4E6E304EE-EGCE	16Gb	512M×32	LPDDR3	178ball					T/A	T/A	N/A	T/A		T/A	T/A				
March Marc												T/A	N/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	
Comparison of		K4E6E304EC-EGCF	16Gb	512M×32	LPDDR3	178ball					1	7	.,,	T/A	T/A	T/A	T/A	-7	T/A	-7	
CSCSSP-Water-SecCS		K4EBE304EC-EGCF	32Gb	1024M×32	LPDDR3	178ball					T/A			T/A		T/A	T/A				
MRETERSHAM Misson 1466 51304-12 14708 27004 1		K3QF3F30BM-BGCF	16Gb	256M×32x2Ch	LPDDR3	216ball					T/A										
PRISE 15				256M×32																	
PRINSPARAPY/DESCRIPT-150 AS DET 250And8 DOR3 780all 17A 17A 17A 17A NA NA NA NA NA NA NA		K4F0E334FIWI-IVIGXX	1000	312W1~32	EFBBIR4	20000011									1/2				1/8		
PRINCIPATION OF STATE Control of the control of																					
PRINTS/MANUFACKSOR(-1-150)	I	(PRN256M8V79DG8GQF-15E)	2G bit	256M×8	DDR3	78ball	T/A	T/A	T/A	T/A	T/A										
Final Design Fina		(PRN256M8V89CG8GQF-15E)	2G bit	256Mx8	DDR3	78ball	T/A	T/A	T/A	N/A	N/A										
PRINCE P		(PRN512M8V80AG8RHF-15E)	4G bit	512M×8	DDR3	78ball		T/A	T/A	T/A ^[1]	T/A										
RRAINSBALDSROFF-15- 5 46-bit 256M-166 56R3 96b-bit 77A 77		(PRN256M16V80AG8GPF-15E)	4G bit	256Mx16	DDR3	96ball	T/A	T/A	T/A	T/A	T/A										
SPECTEK SPEC		(PRM256M16V80AG8GPF-15E)	4G bit	256Mx16	DDR3	96ball		T/A	T/A	T/A	T/A										
SPECTEX SUUZSMISV908GSLV-125TP) 4G bit 256Mx32 LPDR3 396bil T/A		(SUU256M16V90BG8LY-125TP)	4G bit	256Mx16	DDR3	96ball			T/A												
SM128M32USMDLICU-25FT) 46 bit 128M×16 126DR3 178ball 1	SPECTEK	(SUU256M16V90BG8LY-125TP)	4G bit	256Mx16	DDR3	96ball						T/A	T/A								MICRON子品牌, 兼容性良好
SS25SM32W0IMD1LPF-1078T)		(SM128MX32U80MD1LGU-25FT)	4G bit							T/A	T/A										
SMS12MS22E0F04LHL)		(SS256M32V01MD1LPF-107BT)	8G bit	256Mx32	LPDDR3	178ball								N/A	N/A	N/A	N/A				
PS006 SU325M32201MD18NP) 16G bit 256Mx32 LPDR4 200ball		(SM512M322E0FD4LHL)	8G bit	256Mx32	LPDDR3	178ball									T/A				T/A		
PS007 166 bit 512M×32 LPDR4 200ball		PS006	8G bit	256Mx32	LPDDR4	200ball									N/A				N/A		
SMS12M64291MD48NK) 3/Gbit 512M×64 LPDR4 366ball		PS007 (SU512M32Z01MD2BNP)	16G bit	512M×32	LPDDR4	200ball									T/A				T/A		
SUSTEMMAZDIMDABNK) 3/26bit 512M×64 LPDDR4 366ball		(SM512M64Z91MD4BNK)	32Gbit	512M×64	LPDDR4	366ball									T/A				T/A		
P5013 SM512M64201MD48NK) 32Gbit 512M×64		(SU512M64Z01MD4BNK)	32Gbit	512M×64	LPDDR4	366ball									T/A				T/A		
N2TUIG1666-AC		PS013	32Gbit	512M×64	LPDDR4	366ball									T/A				T/A		
NZTUIGI6GG-AC																					
NZCBLIGB0GN-CG		N2TU1G16GG-AC	1G bit	64M×16	DDR2	84ball	√														NANYA子品牌,兼容性良 好,特供指定渠道及客
N2CB2G168P-CG 2G bit 128M×16 DDR3 96ball √		N2CB1G80GN-CG	1G bit	128M×8	DDR3	78ball															户使用。南亚科技指定
EiXIF N2CB2G1FFP-DI 2G bit 128Mx16 DDR3 96ball T/A T/A<										√	√										经销商:彩虹奥特姆
N2CB4G08DN-CG 4G bit 512M×8 DDR3 78ball T/A T/A T/A T/A T/A 世科 N2CB4G168P-DI 4G bit 256Mx16 DDR3 96ball T/A T/A T/A T/A T/A (即1)							V	T/A	T/A	T/A	T/A										(Aotom)、AVT、富鸿 (FHL)、芯智(SMC)、伟
N2CB4G16BP-DI		N2CB4G08DN-CG	4G bit	512M×8	DDR3	78ball		T/A	T/A	T/A [1]	T/A										世科技(WEISHI)、世平
NZ.L4010UY									T/A	T/A	T/A										(WPI),提供正品保固及 售后服务
		NZCC4G10DP	46 DIT	25bMX1b	DUK3L	yodall		I/A	1/A	I/A	I/A				1						LI /FI WELV



Manufacturer	Part Number	Density	Organization	Туре	package	RK290x RK2918	RK2928/RK30 28A/RK3128/	RK2926/RK3026/ RK3036/RK3036G	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	RK3368/RK32 28A/RK3228B	RV1108/ RK3308	RK3228H	RK3399	RK3328	RK3326/ PX30	RK1808	RK339	9PRO NPU_RA	与RK兼容情况
	EM47DM1688SBA	2G bit	128M×16	DDR3	96ball	N/A	PX3-SE	/RK3126	KK3100/KK3100/PA3		/RK3229/PX5	KK33U6				PASU		CPU_RAM	М	
	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						_				台湾颗粒厂商,
Eorex	EM47FM0888SBA-150	4G bit	512Mx8	DDR3	78hall		T/A	T/A	1/8	1/A										
	EM47FM0888SBA-150	4G bit	512Mx8	DDR3	78ball		T/A	T/A												兼容性较好
							I/A	I/A												
	EM47EM3288MBA-125	8G bit	256Mx32	DDR3	136ball				T/A	T/A										
	EM45FM3288LBA-187F	16Gb/2Channel	256Mx32x2Ch	LPDDR2	220ball				N/A	T/A										
	EM68B16CWPA-25H	512M bit	32M×16	DDR2	84ball	√														
	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								
	EM6GD16EWBH-12H	2G bit	128Mx16	DDR3	96ball												T/A		T/A	A selection of the Artists
Etron Tech	EM6GE16EW5B-15H	4G bit	256M×16	DDR3	96ball	T/A	T/A	T/A	T/A	T/A									•	台湾颗粒厂商,兼容性
	EM6GE08EW8C-12H	4G bit	512Mx8	DDR3	78ball	.,	T/A	T/A	-7	-,										较好
	EM6GE16EWXC-12H	4G bit	256M×16	DDR3	96ball		T/A	T/A	T/A	T/A										
	EM6HE16EWXD-12H	4G bit	256M×16	DDR3L	96ball		1/8	1/8	1/5	1//	T/A	T/A	T/A		T/A	T/A	T/A		T/A	
						_					1/4	1/A	1/A		1/A	1/4				
	EM6GE16EWXD-10H	4G bit	256M×16	DDR3	96ball												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	T/A	T/A	T/A		T/A		
-																				
	M14D1G1664A-1.8BG2S	1G bit	64Mx16	DDR2	84ball							T/A								
	M15T1G1664A-DEBG2C	1G bit	64Mx16	DDR3	96ball							T/A								
	M15T1G1664A-DEBG2CS	1G bit	64Mx16	DDR3	96ball			T/A												
ESMT	M15T2G16128A-DEBG2L	2G bit	128Mx16	DDR3	96ball						T/A	T/A				N/A				
-	M15T2G16128A-DEBG2LS	2G bit	128Mx16	DDR3	96ball						-,,,,					N/A	T/A		T/A	
	M15T4G16256A-DEBG2L	4G bit	256M×16	DDR3	96ball								T/A		T/A	T/A	-,-		-,,^	
	M15F4G16256A-DEBG2L	4G bit	256M×16	DDR3	96ball	+					T/A	T/A	T/A		T/A					
	WI3F4G10230A*DEBG2L	40 Dit	230W1×10	DDR3	Sobali						1/A	1/4	1/A		1/A	1/A				
	P3R1GE4CFF-G8E	1G bit	64M×16	DDR2	84ball	√														
	P3R1GE3FGF-G8E	1G bit	128M×8	DDR2	84ball	√														256M16在RK3066,
	P2P2GF4ALF-GGN	2G bit	128MX16	DDR3	96ball						T/A	T/A								RK31xx平台上需要添加
MIRA	P2P2GF4ALF-GJS	2G bit	128MX16	DDR3	96ball							T/A	T/A		T/A	T/A				定频相关补丁。并且双
IVIIKA	P3P4GF3BLF-GGN	4G bit	512M×8	DDR3	78ball		T/A	N/A	N/A	N/A										参考层完整性要求较
	P3P4GF4BLF-GGN	4G bit	256Mx16	DDR3	96ball		T/A	.,	T/A	T/A	T/A	T/A	T/A		T/A	T/A				高,需要严格遵照我们
	P3P4GF4BLF-GJS	4G bit	256Mx16	DDR3	96ball		.,		.,	-,	.,	-,	T/A		T/A					的布板要求布板。
	P3P4GF4DMF-GJS	4G bit	256Mx16	DDR3	96ball								T/A		T/A					11111100353535111000
													,		-,	.,				
	SCB15H1G160CF-13K	1G bit	64M×16	DDR3	96ball							T/A								
	SCN13H2G160AF-13K	2G bit	128M×16	DDR3	96ball		T/A													
UniIC	SCB13H2G160AF-11M	2G bit	128M×16	DDR3L	96ball						T/A	T/A								
	SCB13H4G160AF-11M	4G bit	256Mx16	DDR3L	96ball					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	256Mx16	DDR3	96ball		T/A	T/A		T/A	T/A	T/A								
	HXB18T1G160AF-25D	1G bit	64M×16	DDR2	84ball	√														256M16在RK3066,
	HXB18T2G160AF-25D	2G bit	128M×16	DDR2	84ball	✓									L					RK31xx平台上需要添加
SCSemicon	HXB15H2G800BF-15H	2G bit	256M×8	DDR3	78ball	N/A	T/A	N/A	T/A	T/A										定频相关补丁。并且邓
Semicon	HXB15H2G160CF-13K	2G bit	128M×16	DDR3	96ball		T/A													参考层完整性要求较
	HXB15H4G800BF-15H	4G bit	512M×8	DDR3	78ball	N/T [1]	T/A	N/A	T/A [1]	T/A										高,需要严格遵照我们
	HXB15H4G160BF-15H	4G bit	256Mx16	DDR3	96ball	T/A			T/A	T/A										的布板要求布板。
									·											
																	1			
ADATA	3CCD-1211A EL1250V	2G bit	256Mx8	DDR3	78ball	N/A	T/A	N/A	T/A	T/A										使用Elpida品圆兼容性
ADATA	D2ND-1211A EL1345V	4G bit	256Mx16	DDR3	96ball		T/A	T/A	T/A	T/A										一般。PCB不允许有参 考层有割断的现象。
	D2ND-1211A NA1518V	4G bit	256Mx16	DDR3L	96ball		T/A	T/A	T/A	T/A										与压钉刮断的现象。
																	-			
ANCE	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
ANOR	AM43Q4G08AFP-150C	4G bit	512Mx8	DDR3	78ball		T/A	N/A	,											一般。PCB不允许有参考
				-		1				1										层有割断的现象。
	A3R12E40DBF-AH	512M bit	32M×16	DDR2	84ball		1					T/A								
	A3T1GF40CBF-HP	1G bit	64M×16	DDR3	96ball						 	-/-								
Zentel	A3T1GF40CBF-GM	1G bit	64M×16	DDR3	96ball															
Zentei	ACTOCIONED CM		1201416	DDR3	960all	_	T/A					_				_	_			
	A3T4GF40ABF-GM	2G bit 4G bit	128M×16 256Mx16	DDR3 DDR3	96ball 96ball		I/A						T/A		T/A	T/A				
	AST-TOP-ONI	40 010	ZJOIVIATO	5513	Jouan		1	 		1		 	1/0		1/4	1//	1			
	ļ	1G bit	64M×16	DDR2	84hall	√	+			1	1	1		†	t	1	1			
	V59C1G01168QBASXJ25		011111120		Olbun	<u>`</u>														
ProMOS	V73CAG01808RA JI9	1G bit	128M×8	DDR3	78ball	√														
ProMOS			128M×8 128M×16		Olbun															



						RK290x	RK2928/RK30	RK2926/RK3026/	RK3066/RK3066A/PX2		RK3368/RK32	RV1108/		1	RK3326/			99PRO	
Manufacturer	Part Number	Density	Organization	Туре	package	RK2918		RK3036/RK3036G	RK3168/RK3188/PX3	RK3288	28A/RK3228B	RK3308 RK3228	RK3399	RK3328	PX30	RK1808	CPU_RAM	NPU_RA M	与RK兼容情况
	S4B2G0846C-HYH9	2G bit	256Mx8	DDR3	78ball		PX3-SE	/RK3126	T/A	T/A	/RK3229/PX5							М	巴西颗粒,国内用的不
SMART	S4B2G0846D-HYK0	2G bit	256M×8	DDR3	78ball				T/A	T/A									全
	3 IDEGGG IGD TITTO	20 010	23011110	551.5	705011				.,,,,	1,74									2
	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	√													
πΡΜ	PMF511816DBR-KADN	2G bit	128Mx16	DDR3	96ball	_			T/A	T/A				-					
	PMF512816BBR-KADN	4G bit	256Mx16	DDR3	96ball				T/A	T/A									
	PMF512816DBR-KADN PMF412816FBR-KADN	4G bit	256Mx16 256M×16	DDR3 DDR3L	96ball 96ball		T/A	T/A	T/A	T/A									
	PMF412810FBR-RADIN	4G bit	230IAI×10	DDR3L	900011	+				T/A				1					
MT.MOSET	ED3E25608CE-P9	2G bit	256M×8	DDR3	78ball	T/A	T/A	N/A	T/A	T/A									
MII.MOSEI	ED3E23608CE-P9	2G Bit	230IVI×8	DDR3	/8ball	1/A	I/A	N/A	1/A	1/A									
	VP5TQ1G0835-F9	1G bit	128M×8	DDR3	78ball	√													
WINS	VP5TQ2G1635FFP-F9	2G bit	128M×16	DDR3	96ball	√	N/A	N/A											
	VP5TQ2G0835L-F9	2G bit	256M×8	DDR3	78ball	√													
	D5128EETBPGGBU	4G bit	512Mx8	DDR3	78ball	_	T/A	T/A	T/A	T/A	1 [71	[7]							
	D2516EC4BXGGB	4G bit	256Mx16	DDR3L	96ball		T/A [7]	T/A [7]	T/A [7]	T/A [7] [7] _{T/A}	[7] T/A							256M16在RK3066,
	D2516ECMDXGJD	4G bit	256Mx16	DDR3L	96ball							T/A		T/A	T/A	T/A		T/A	RK31xx平台上需要添加 定頻相关补丁。并且对
Kingston	D2516JC4BXGJD	4G bit	256Mx16	DDR3	96ball					T/A									
	D2532LA6MLGJA	8G bit	256Mx32	LPDDR3	178ball							T/A		T/A	T/A	T/A		T/A	参考层完整性要求较 高,需要严格遵照我们
	KB23AADL3E08G	8G bit	512M×16	LPDDR3	178ball					T/A									向, 而安广恰度照找III 的布板要求布板。
	D2516PC1CDGPLR	8G bit	256Mx32	LPDDR4	200ball	_							T/A				T/A		时仰似女术仰似。
	Q5116PH1MDGPAR	16G bit	512M×32	LPDDR4	200ball								N/A				N/A		
ISSI	IS43TR16640B-125KBL IS43TR1612BC-125KBL	1G bit 2G bit	64M×16 128M×16	DDR3 DDR3	96ball 96ball						T/A	T/A T/A							
	154511101286-125188	20 bit	120141~10	DDRS	Joban						- '/~	./.							
	H2A301G1656BC6C	1G bit	64M×16	DDR2	84ball							T/A							
	H2A401G1666BFBC	1G bit	64M×16	DDR3	96ball							T/A							
axeme	H2A402G1666BFBC	2G bit	128M×16	DDR3	96ball		T/A	T/A											
	H2A404G1666CFMC H2A404G0866CD8C	4G bit 4G bit	256M×16 512Mx8	DDR3 DDR3	96ball 78ball				T/A	T/A		T/A		T/A	T/A				
	TIZA-0-G0000CD0C	40 010	SIZIVIAO	DDRS	700011				1/8	1/4									
ICDT	11 3BB 30F01 I	166 hit/26h	2504-22-204	LDDDDD	2201-11					7/0									
ISDT	IL2BR20E8H	16G bit/2Channel	256Mx32x2Ch	LPDDR2	220ball					T/A									
	W971GG6SB-18	1G bit	64M×16	DDR2	84ball							T/A		-					
	W631GG6KB-12	1G bit	64M×16	DDR3	96ball						T/A	T/A							
Winbond	W631GG6MB-12	1G bit	64M×16	DDR3	96ball						i i	T/A							
	W632GG6KB-15	2G bit	128M×16	DDR3	96ball		T/A	T/A	T/A	T/A									
	W632GG6NB-12	2G bit	128M×16	DDR3	96ball							T/A		T/A	T/A				
														-					
Goldkey	GH4061600HRL-1833	4G bit	256M×16	DDR3L	96ball							T/A		T/A	T/A				
						+				-				1					
	BW52L512M32D2PF	16G bit	512M×32	LPDDR3	178ball						T/A					T/A		T/A	
BIWIN	BWMD4X32H2A-08Gb	8G bit	256M×32	LPDDR4	200ball								N/A				N/A		
	BWMD4X32H2A-16Gb	16G bit	512M×32	LPDDR4	200ball								T/A				T/A		
													 _						
	NCLD3B2256M32 NCLD4C1MA256M32	8G bit/ 2cs 8G bit	256M×32 256M×32	LPDDR3 LPDDR4	178ball 200ball	-				T/A	_		T/A		1		T/A T/A		
FORESEE	NCLD4C1MA250M32	16G bit	512M×32	LPDDR4	200ball								T/A				T/A		
	NCLDXC1MC512M32	16G bit	512M×32	LPDDR4	200ball								T/A				T/A		
Essencore	I5TQ4G63EFR	4G bit	256M×16	DDR3	96ball							T/A		T/A	T/A				
Netsol	S5RG2G20CMS-MGCJ	32G bit	512M×64	LPDDR4	366ball								N/A				N/A		
			-						1										-
T1/	TM8G32MD4LSA1-I4	8G bit	256M×32	LPDDR4	200ball								T/A				T/A		
TMTC	TH16G32MD4LQM1-I4	16G bit	512M×32	LPDDR4	200ball								N/A				N/A		