

# Rockchip Solutions DDR SDRAM Support List

Ver 2.18

2016/8/1



## • 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	2013.5.17
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



### Symbol

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	RK2906_PMIC_REF_V20_0418
RK2918	DDR2/DDR3	RK2918_REF_V13_20110517
RK2926/RK3026	DDR3	2926_86v_v1.2_20121109
RK2928/RK3028/RK3028A	DDR3	RK2928-DDR3P208SD4-V10-20120712LX.pcb
RK3066	DDR3/LPDDR2	RK3066_REF_TPS659102_V12_20121024_1CELL
PX2	DDR3/LPDDR2	PX2_CAR_V11.pcb
RK3168/RK3188	DDR3/LPDDR2	RK3188-DDR3P416SS4-V10-20130607WF.pcb
RK3126	DDR3	2926_86v_v1.2_20121109
RK3128	DDR3/LPDDR2	RK3128-DDR3P216SD4-V10-20140912HJH.pcb
RK3288	DDR3/LPDDR2/LPDDR3	RK3288-DDR3P416SD6-V11-20140305HJH
RK3368	DDR3/LPDDR2/LPDDR3	R88(RK3368)_V01_20150313
RK3036	DDR3	RK3036_SDK_ V1.0_20140528
RK3036G	DDR3	DONGLE_RK3036-G_20150408J.pcb
RK3228A/RK3228B/RK3229	DDR3/LPDDR2/LPDDR3	RK3228A_BOX_R88_DISCRETEPOWER_DDR3P216SD4_V1.0_20151129.pcb
PX3	DDR3/LPDDR2	RK_SDK_MAIN_PX3_CAR_V10_20160607
RK3399	DDR3/DDR3L/LPDDR3	

#### Application Note:

 $[1] \ \ Following \ SOCs \ not \ support \ the \ 512 Mx8 \ DDR3 \ because \ of \ the \ package \ without \ Address \ Input \ pin \ A15:$ 

[2]The DRAM Part Number is 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 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 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]Since DDR is high speed device. Please directly copy our PCB DRAM Part Template and follow our PCB product guide.

Contact information: fae@rock-chips.com

[5]Only supported by RK3128.



Manufacturer	Part Number	Density	Organization	Туре	Process (nm)	detail	package	RK281x	RK290x RK2918	RK2928/RK30 28A/RK3128	RK2926/RK3026/ RK3036/RK3036G /RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	RK3368/RK3228A/ RK3228B/RK3229	RK3399	与RK兼容情况
	E1116AEBG-8E-F	1G bit	64M×16	DDR2	40		84ball	✓	✓							
	EDJ1108DJBG	1G bit	128M x 8	DDR3	40		78ball		✓							
	EDJ1116DJBG	1G bit	64M×16	DDR3	40	DJ-F(10)	96ball									
	EDJ2108DEBG	2G bit	256M×8	DDR3	40	DJ-F(8)	78ball		✓	T/A	T/A	√	√			
	EDJ2108BDBG	2G bit	256M×8	DDR3	30	DJ-F(8)	78ball		✓	T/A	N/A	√	√			
	EDJ2108EEBG	2G bit	256M×8	DDR3L	40	DJ-F(0)	78ball									
	EDJ2108EDBG	2G bit	256M×8	DDR3L	30	DJ-F	78ball					T/A	T/A			
	EDJ2116DEBG	2G bit	128M×16	DDR3	40	DJ-F(10)	96ball		<b>√</b>							
	EDJ2116EEBG	2G bit	128M×16	DDR3L	40	DJ-F(4)	96ball		T/A							
	EDJ4208BBBG	4G bit	512M×8	DDR3	30	DJ-F(8)	78ball			T/A	T/A	T/A [1]	T/A			TA A THE MAN THE AND A
	EDJ4208EFBG	4G bit	512M×8	DDR3L		GN-F(30)	78ball			T/A	T/A	T/A [1]	T/A			除个别老款颗粒如:
Elpida	EDJ4208EBBG	4G bit	512M×8	DDR3L	30	DJ-F(8)	78ball			T/A	N/A	T/A [1]	T/A			EDJ2108BDBG对pcb要
	EDJ4216BASE	4G bit	256M×16	DDR3	40	DJ-F(4)	96ball		<b>√</b>							求偏高外总体兼容情况
	EDJ4216BBBG	4G bit	256M×16	DDR3	30	DJ-F(4)	96ball		<b>√</b>			√	✓			良好
	EDJ4216EBBG	4G bit		DDR3L	30	DJ-F(4)	96ball		T/A			T/A	T/A			
	EDJ4216EFBG	4G bit	256M×16	DDR3L		GNL-F(10)	96ball		T/A	T/A	T/A	T/A	T/A			
	EDB4032B2MA	4Gb/2CS	64M×32×2pcs	LPDDR2		8D-F	134ball					T/A	T/A			
	EDB8132B3MA	8Gb/2CS	128M×32×2pcs	LPDDR2		8D-F	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			
	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			
	MT47H64M16HR-25	1G bit	64M×16	DDR2			84ball	√	<b>√</b>							_
	MT41J128M8JP-15E:G(D9MNL)	1G bit	128M x 8	DDR3	50		78ball		✓							_
	MT41K128M8DA-107:J(D9RDJ)	1G bit	128M x 8	DDR3L			78ball	1	<b>.</b>			T/A				_
	MT41J128M16HA-15E:D(D9LGQ)	2G bit	128M×16	DDR3	50	10	96ball	ļ	<b>√</b>							_
	MT41J256M8HX-15E:D(D9LGK)	2G bit	256M×8	DDR3	50	19	78ball	ļ	<b>√</b>	T/A	T/A	T/A	T/A			_
	MT41K256M8DA-125:K(D9PSH) MT41K256M8DA-125:M(D9PFJ)	2G bit	256M×8	DDR3L DDR3L	3x	12	78ball			T/A	T/A	T/A	T/A			_
	MT41K128M16HA-125:M(D9PFJ)	2G bit 2G bit	256M×8 128M×16	DDR3L	42 50	4 10	78ball 96ball		T/A	T/A	T/A	T/A	T/A			_
						20	96ball		V V	T/A	T/A	7/4	T/A			_
Micron	MT41K128M16JT-125:K(D9PKT)	2G bit	128M×16	DDR3L	3x	20			v	T/A	T/A	T/A	T/A			the site lat. 4-7
MICION	MT41K512M8RA-15E:D(D9NZZ) MT41K512M8RH-125:E(D9QBJ)	4G bit 4G bit	512M×8 512M×8	DDR3L DDR3L	42 3x	22	78ball 78ball	1	l	T/A	T/A		T/A	-	1	兼容性好
		4G bit	512M×8	DDR3L	3X	22	78ball	-		I/A	1/A	T/A [1]	1/A			=
	MT41K512M8RG-107:N(D9RVX)	4G bit	512M×8	DDR3L	+ +		78ball	<del>                                     </del>	<b> </b>	-		T/A T/A		-	<b> </b>	-
	MT41K512M8DA-107:P(D9SGQ) MT41K256M16RE-15E:D(D9PBF)	4G bit	256M×16	DDR3L	42		96ball	<del>                                     </del>	<b>1</b>	-		1/A		-	<b> </b>	-
			256M×16 256M×16	DDR3L		าา	96ball		•	T/A	T/A	T/A	T/A	-	<b> </b>	4
	MT41K256M16HA-125:E(D9PXV)	4G bit			3x	22 20	96ball		√	T/A	T/A	T/A	T/A	-	<b> </b>	+
	MT41K256M16HA-125M:E(D9QLJ) MT41K256M16LY-107:N( D9SDD)	4G bit	256Mx16 256Mx16	DDR3L		20	96ball			T/A	T/A	T/A	T/A	T/A	T/A	4
				DDR3L			96ball 96ball			T/A	I/A	T/A		T/A	T/A	_
	MT41K256M16TW-107:P(D9SHD)	4G bit	256Mx16	DDR3L	+	10		1	l		-	T/A	T/A	T/A	1	4
	MT42L128M32D1GU-25 WT:A(Z9QHG)	4G bit	128Mx32	LPDDR2		10	134ball					T/A	T/A			
•			-			•										
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Manufacturer	Part Number	Density	Organization	Туре	Process (nm)	detail	package	RK281x	RK290x RK2918	RK2928/RK30 28A/RK3128	RK2926/RK3026/ RK3036/RK3036G /RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	RK3368/RK3228A/ RK3228B/RK3229	RK3399	与RK兼容情况
	H5PS1G63CFP	1G bit	64M×16	DDR2		Y5	84ball	<b>√</b>	<b>√</b>		788.312.0					
	H5PS1G63EFR	1G bit	64M×16	DDR2	38	Y5	84ball	√	✓							
	H5TQ1G83DFR	1G bit	128M×8	DDR3	44	H9C(8)	78ball		- ✓			T/A	T/A			
	H5TQ1G83TFR	1G bit	128M×8	DDR3	44		78ball		<b>√</b>							
	H5TQ1G63DFR	1G bit	64M×16	DDR3	44	PBC(40)	96ball									
	H5TQ2G83CFR	2G bit	256M×8	DDR3	38	H9C(10)	78ball		- ✓	<b>√</b>	<b>√</b>	√ .	√			
	H5TQ2G83BFR	2G bit	256M×8	DDR3	44	H9C(10)	78ball		T/A	T/A	T/A					
	H5TQ2G83EFR	2G bit	256Mx8	DDR3		PBC(20)	78ball		T/A	T/A	T/A	T/A	T/A			_
	H5TQ2G83FFR H5TQ2G83GFR	2G bit 2G bit	256Mx8 256Mx8	DDR3 DDR3			78ball 78ball			T/A	T/A	T/A	T/A			_
	H5TQ2G83GFR H5TQ2G63BFR	2G bit	128M×16	DDR3	44	H9C	96ball		<b>V</b>			I/A	1/A			
	H5TQ2G63GFR	2G bit	128M×16	DDR3	44	H9C	96ball		V			T/A	T/A	T/A		
	H5TQ2G63FFR	2G bit	128M×16	DDR3			96ball			T/A	T/A	I/A	1/A	1/A		-
	H5TQ2G63FFR	2G bit	128M×16	DDR3			96ball			T/A	T/A			T/A		-
	H5TQ2G63DFR	2G bit	128M×16	DDR3	38	H9C(20)	96ball		- 1	I/A	I/A	T/A	T/A	1/A		-
	H5TQ4G83AFR	4G bit	512M×8	DDR3	29	PBC(20)	78ball			T/A	T/A	T/A <sup>[1]</sup>	T/A			-
	H5TC4G83AFR	4G bit	512M×8	DDR3L	29	PBA(0)	78ball			1/8	1/8	T/A <sup>[1]</sup>	T/A			-
Hynix	H5TQ4G83MFR	4G bit	512Mx8	DDR3	38	H9C(20)	78ball	1		T/A	T/A	T/A <sup>[1]</sup>	T/A	1	<b> </b>	兼容性好
	H5TC4G83BFR	4G bit	512Mx8	DDR3L	50	PBC(20)	78ball			T/A	T/A	1/A''	-//5	1	1	1
	H5TQ4G63MFR	4G bit	256M×16	DDR3	38	H9C(20)	96ball		<b>√</b>	T/A	T/A	T/A	T/A	1		1
	H5TQ4G63AFR	4G bit	256Mx16	DDR3	29	PBC(30)	96ball		T/A	T/A	T/A	T/A	T/A	T/A		
	H5TC4G63AFR	4G bit	256Mx16	DDR3L	29	PBC(10)	96ball	1		T/A	T/A	T/A	T/A	1		7
	H5TC4G63CFR	4G bit	256Mx16	DDR3L		PBC	96ball	1		7	1	T/A	T/A	T/A		7
	H5TQ4G63CFR	4G bit	256Mx16	DDR3		1 = =	96ball			T/A	T/A	-71-1	-7	T/A	T/A	
	H9TCNNN4JDMMPR	4Gb/2CS	128M×32	LPDDR2			134ball								,	
	H9TCNNN8JDMMPR	8Gb/2CS	256M×32	LPDDR2		5(1066)	134ball					T/A	T/A			
	H8TJR00X0MLR	8Gb/2CS	256M×32	LPDDR2			168ball					T/A	T/A			
	H9TP33A8LDMCMR	8Gb/2CS	256M×32	LPDDR2+eNAND		KYM	162ball									
	H9TKNNN8KDMPQR	8Gb/2Channel	128Mx32x2Ch	LPDDR2			216ball			T/A [5]						
	H9TKNNNBPDMRAR	16Gb/2Channel	256Mx32x2Ch	LPDDR2			220ball					N/A	T/A			
	H9CCNNN8JTALAR	8Gb	256Mx32	LPDDR3			178ball						T/A			
	H9CCNNN8GTMLAR	8Gb	256Mx32	LPDDR3	25	NUD	178ball						T/A			
	H9CCNNNBLTALAR	16Gb	512M×32	LPDDR3			178ball						T/A			
	H9CCNNNBJTMLAR	16Gb	512M×32	LPDDR3	25	NUD	178ball						T/A		T/A	<u> </u>
	NT5TU32M16CG-3C	512M bit	32M×16	DDR2	70		84ball	<b>V</b>	<b>V</b>							
	NT5TU64M16GG	1G bit	64M×16	DDR2	50	30	84ball	V	V	<b> </b>				1	l	=
	NT5CB128M8DN	1G bit	128M×8	DDR3	50	50	96ball	V	<b>V</b>							-
	NT5CC128M8DN	1G bit	128M×8	DDR3L	50	CF(8)	78ball		<b>V</b>			T/A	T/A			-
	NT5CB128M8FN	1G bit	128Mx8	DDR3	30	DH ( 16 )	78ball		· ·			T/A	T/A			-
	NT5CC128M8GN	1G bit	128Mx8	DDR3L		DIT(10)	78ball						1/1			
	NT5CB256M8GN		256M×8									T/A		1		
				DDB3	42	DI(8)			<b>J</b>	T/Δ	T/Δ	T/A	Τ/Δ			7
	NT5CR256M8RN	2G bit		DDR3	42 50	DI(8)	78ball		√ √	T/A	T/A	T/A	T/A			
	NT5CB256M8BN NT5CB256M8FN	2G bit	256M×8 256M×8 256M×8	DDR3	50	CG(12)			•	T/A	T/A	T/A T/A	T/A			<u> </u>
	NT5CB256M8BN NT5CB256M8FN NT5CC256M8IN		256M×8				78ball 78ball		V			T/A				
	NT5CB256M8FN	2G bit 2G bit	256M×8 256M×8	DDR3 DDR3	50 30	CG(12) CG(40)	78ball 78ball 78ball		V	T/A T/A	T/A T/A	T/A T/A T/A	T/A			
	NT5CB256M8FN NT5CC256M8IN NT5CB128M16BP	2G bit 2G bit 2G bit	256M×8 256M×8 256M×8	DDR3 DDR3 DDR3L	50	CG(12)	78ball 78ball 78ball 78ball		√ √	T/A	T/A	T/A T/A T/A T/A	T/A T/A			
	NT5CB256M8FN NT5CC256M8IN	2G bit 2G bit 2G bit 2G bit	256M×8 256M×8 256M×8 128M×16	DDR3 DDR3 DDR3L DDR3	50 30	CG(12) CG(40) BE(6)	78ball 78ball 78ball 78ball 96ball		√ √ √	T/A T/A	T/A T/A	T/A T/A T/A T/A T/A	T/A T/A			
	NT5CB256M8FN NT5CC256M8IN NT5CB128M16BP NT5CB128M16HP	2G bit	256M×8 256M×8 256M×8 128M×16 128M×16	DDR3 DDR3 DDR3L DDR3 DDR3	50 30 50	CG(12) CG(40) BE(6) EK(12)	78ball 78ball 78ball 78ball 96ball 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			
Nanya	NT5CB256M8FN NT5CC256M8IN NT5CB128M16BP NT5CB128M16HP NT5CC128M16BP	2G bit 2G bit 2G bit 2G bit 2G bit 2G bit 2G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16	DDR3 DDR3L DDR3 DDR3 DDR3 DDR3 DDR3 DDR3	50 30 50	CG(12) CG(40) BE(6) EK(12) CG(20)	78ball 78ball 78ball 78ball 96ball 96ball 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 T/A T/A T/A			兼容性好
Nanya	NT5CB256M8FN NT5CC256M8IN NT5CB128M16BP NT5CB128M16HP NT5CC128M16BP NT5CB128M16FP	2G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16	DDR3 DDR3L DDR3 DDR3 DDR3 DDR3 DDR3L DDR3L	50 30 50	CG(12) CG(40) BE(6) EK(12) CG(20)	78ball 78ball 78ball 78ball 96ball 96ball 96ball 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			兼容性好
Nanya	NT5CB256M8FN NT5CC256M8IN NT5CB128M16BP NT5CB128M16HP NT5CC128M16BP NT5CB128M16FP NT5CL128M16FP	2G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16	DDR3 DDR3L DDR3 DDR3 DDR3 DDR3 DDR3L DDR3L DDR3L DDR3L DDR3	50 30 50 50 30	CG(12) CG(40) BE(6) EK(12) CG(20) CG(2)	78ball 78ball 78ball 78ball 96ball 96ball 96ball 96ball 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 T/A T/A T/A			兼容性好
Nanya	NTSCB256M8FN NTSCC256M8IN NTSCB128M16BP NTSCB128M16HP NTSCB128M16HP NTSCB128M16FP NTSCB128M16FP NTSCB128M16FP NTSCB12M8BN	2G bit 4G bit 2G bit 2G bit 4G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16 512M×8	DDR3 DDR3 DDR3L DDR3 DDR3 DDR3 DDR3L DDR3L DDR3L DDR3L DDR3L DDR3L	50 30 50 50 30 42	CG(12) CG(40) BE(6) EK(12) CG(20) CG(2) D1(20)	78ball 78ball 78ball 78ball 96ball 96ball 96ball 96ball 96ball 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 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 T/A T/A T/A			兼容性好
Nanya	NTSCB256MSFN NTSCC256MSIN NTSCB128M16BP NTSCB128M16HP NTSCB128M16HP NTSCC128M16FP NTSCB128M16FP NTSCC128M16IP NTSCB512MMSBN NTSCS512MSBN NTSCC512MSCN	2G bit 4G bit 4G bit 4G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16 512M×8	DDR3 DDR3 DDR3L DDR3 DDR3 DDR3 DDR3 DDR3	50 30 50 50 30 42	CG(12) CG(40) BE(6) EK(12) CG(20) CG(2) D1(20)	78ball 78ball 78ball 78ball 78ball 96ball 96ball 96ball 96ball 96ball 78ball 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 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 T/A T/A T/A			兼容性好
Nanya	NTSCE256M8FN NTSCC256M8IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16HP NTSCC128M16BP NTSCB128M16FP NTSCB128M16FP NTSCB128M16FP NTSCB128M16FP NTSCC512M8EN NTSCC512M8EN NTSCC512M8EN	2G bit 4G bit 4G bit 4G bit 4G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16 128M×16 128M×18 512M×8 512M×8	DDR3 DDR3 DDR3L DDR3 DDR3 DDR3 DDR3L	50 30 50 50 30 42 30	CG(12) CG(40) BE(6) EK(12) CG(20) CG(2) D1(20) D1(20)(3066A测试过	78ball 78ball 78ball 78ball 96ball 96ball 96ball 96ball 96ball 78ball 78ball 78ball		√	T/A T/A T/A T/A T/A T/A T/A	T/A	T/A	T/A			兼容性好
Nanya	NTSCB256M8FN NTSCC256M8IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16HP NTSCB128M16FP NTSCC128M16IP NTSCC128M16IP NTSCB128M16FP NTSCB12M8IN NTSCB12M8IN NTSCS512M8CN NTSCC512M8DN NTSCS512M8DN NTSCS512M8DN NTSCB56M16BP	2G bit 4G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 512M×8 512M×8 512M×8 512M×8 256M×16 256M×16	DDR3 DDR3 DDR3L DDR3L DDR3 DDR3L DDR3 DDR3	50 30 50 50 30 42 30 42 30 30	CG(12) CG(40)  BE(6) EK(12) CG(20) CG(2) D1(20)(3066A测试过 CG(20)	78bali 78bali 78bali 78bali 96bali 96bali 96bali 78bali 78bali 78bali 96bali 96bali 96bali		√	T/A	T/A	T/A	T/A			兼容性好
Nanya	NTSCE256M3FN NTSCC256M3IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16HP NTSCC128M16BP NTSCB128M16FP NTSCC128M16IP NTSCC128M16IP NTSCS12M3BN NTSCC512M3EN NTSCC512M3EN NTSCC512M3EN NTSCB256M16BP NTSCB256M16CP NTSCC256M16CP NTSCC256M16CP	26 bit 46 bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16 512M×8 512M×8 512M×8 512M×8 526M×16 256M×16 256M×16	DDR3 DDR3 DDR3L DDR3 DDR3 DDR3 DDR3 DDR3	50 30 50 50 30 42 30 42 30	CG(12) CG(40) BE(6) EK(12) CG(20) CG(2) D1(20) D1(20)(3066A测试过 CG(20) D1(20)	78ball 78ball 78ball 78ball 78ball 96ball 96ball 96ball 96ball 96ball 96ball 96ball 96ball 98ball 78ball 78ball 98ball 96ball		√	T/A	T/A	T/A	T/A	T/A		兼容性好
Nanya	NTSCE256M8FN NTSCC256M8IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16FP NTSCC128M16FP NTSCC128M16FP NTSCB12M8BN NTSCC512M8EN NTSCC512M8DN NTSCC512M8DN NTSCC512M8DN NTSCC516M5DP NTSCB256M16CP NTSCC56M16CP	2G bit 4G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16 512M×8 512M×8 512M×8 512M×8 526M×16 256M×16 256M×16 256M×16 256M×16 256M×16	DDR3 DDR3 DDR3 DDR3 DDR3 DDR3 DDR3 DDR3	50 30 50 50 30 42 30 42 30 30	CG(12) CG(40)  BE(6) EK(12) CG(20) CG(2) D1(20) D1(20)(3066A测试过 CG(20) D1(20) D1(20) D1(20) D1(20) D1(20)	78bail 78bail 78bail 78bail 96bail 96bail 96bail 96bail 78bail 78bail 78bail 96bail 96bail 96bail		√	T/A	T/A	T/A	T/A	T/A		兼容性好
Nanya	NTSCE256M3FN NTSCC256M3IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16HP NTSCC128M16BP NTSCB128M16FP NTSCC128M16IP NTSCC128M16IP NTSCS12M3BN NTSCC512M3EN NTSCC512M3EN NTSCC512M3EN NTSCB256M16BP NTSCB256M16CP NTSCC256M16CP NTSCC256M16CP	26 bit 46 bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16 512M×8 512M×8 512M×8 512M×8 526M×16 256M×16 256M×16	DDR3 DDR3 DDR3L DDR3 DDR3 DDR3 DDR3 DDR3	50 30 50 50 30 42 30 42 30 30	CG(12) CG(40)  BE(6) EK(12) CG(20) CG(2)  D1(20) D1(20)(3066A测试过 CG(20) D1(20) D1(20)	78ball 78ball 78ball 78ball 78ball 96ball 96ball 96ball 96ball 96ball 96ball 96ball 96ball 98ball 78ball 78ball 98ball 96ball		√	T/A	T/A	T/A	T/A	T/A		兼容性好
Nanya	NTSCE256M8FN NTSCC256M8IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCC128M16FP NTSCC128M16FP NTSCC128M16FP NTSCB128M16FP NTSCB12M8DN NTSCB12M8DN NTSCB12M8DN NTSCB12M8DN NTSCB12M8DN NTSCB256M16CP NTSCC256M16CP NTSCC256M16DP	2G bit 4G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16 512M×8 512M×8 512M×8 512M×8 526M×16 256M×16 256M×16 256M×16 256M×16 256M×16	DDR3 DDR3 DDR3 DDR3 DDR3 DDR3 DDR3 DDR3	50 30 50 50 30 42 30 42 30 30	CG(12) CG(40)  BE(6) EK(12) CG(20) CG(2) D1(20) D1(20)(3066A测试过 CG(20) D1(20) D1(20) D1(20) D1(20) D1(20)	78bail 78bail 78bail 78bail 96bail 96bail 96bail 96bail 78bail 78bail 78bail 96bail 96bail 96bail		√	T/A	T/A	T/A	T/A	T/A		兼容性好
Nanya	NTSCE256M8FN NTSCC256M8IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB12M8BN NTSCC512M8BN NTSCC512M8DN NTSCC512M8DN NTSCC512MBCD NTSCB256M16BP NTSCB256M16CP NTSCC256M16CP	2G bit 4G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 512M×8 512M×8 512M×8 256M×16 256M×16 256M×16 256M×16 256M×16	DDR3 DDR3L DDR3L DDR3L DDR3 DDR3L DDR3 DDR3	50 30 50 50 30 42 30 42 30 30	CG(12) CG(40)  BE(6) EK(12) CG(20) CG(20) DI(20)(3066A測试过 CG(20) DI(20)	78bali 78bali 78bali 78bali 96bali 96bali 96bali 78bali 78bali 78bali 78bali 96bali 96bali 96bali 96bali 96bali 168bali		√	T/A	T/A	T/A	T/A	T/A		兼容性好
Nanya	NTSCE256M8FN NTSCC256M8IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB12M8BN NTSCC512M8DN NTSCB512M8DN NTSCB56M16CP NTSCC256M16CP NTSCC36M3CAP NTSCB128M32AQ NTGTL256T32AI	26 bit 46 bit 56 bit 67 bit 68 bit 86 bit 86 bit 86 bit 86 bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 512M×8 512M×8 512M×8 256M×16 256M×16 128M×16 256M×16 256M×16 256M×32 256M×32	DDR3 DDR3L	50 30 50 50 30 42 30 42 30 30	CG(12) CG(40)  BE(6) EK(12) CG(20) CG(20) DI(20)(3066A測试过 CG(20) DI(20)	78ball 78ball 78ball 78ball 78ball 78ball 78ball 96ball 96ball 96ball 96ball 96ball 78ball 78ball 78ball 78ball 18ball 96ball 134ball		√	T/A	T/A	T/A	T/A	T/A		兼容性好
Nanya	NTSCE256M8FN NTSCC256M8IN NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16BP NTSCB128M16FP NTSCC128M16FP NTSCB128M16FP NTSCB128M16FP NTSCB12M8DN NTSCB12M8DN NTSCB12M8DN NTSCC512M8DN NTSCC512M8DN NTSCC512M8DN NTSCC556M16DP NTSCC256M16DP NTSCC256M16DP NTSCC256M16DP NTGTL256F32AI NTGTL256F32AI NTGTL256F32AI	2G bit 4G bit 5G bit 6G bit 6G bit 6G bit 6G bit 6G bit 6G bit 7G bit 7G bit 7G bit 8G bit 8G bit 8G bit	256M×8 256M×8 256M×8 128M×16 128M×16 128M×16 128M×16 128M×16 512M×8 512M×8 512M×8 512M×8 526M×16 256M×16 256M×16 256M×16 256M×32 256M×32 256M×32	DDR3 DDR3 DDR3L DDR3L DDR3 DDR3 DDR3 DDR	50 30 50 50 30 42 30 42 30 30	CG(12) CG(40)  BE(6) EK(12) CG(20) CG(20) DI(20)(3066A測试过 CG(20) DI(20)	78bail 78bail 78bail 78bail 96bail 96bail 96bail 96bail 78bail 78bail 78bail 96bail 96bail 96bail 96bail 96bail		√	T/A	T/A	T/A	T/A	T/A T/A T/A		兼容性好



Manufacturer	Part Number	Density	Organization	Туре	Process (nm)	片数	package	RK281x	RK2918	RK2928/RK30 28A/RK3128	RK2926/RK3026/ RK3036/RK3036G /RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	RK3368/RK3228A/ RK3228B/RK3229	RK3399	与RK兼容情况
	K4T1G164QE	1G bit	64M×16	DDR2		HCF7	84ball	<b>√</b>	✓							
	K4B1G0846G	1G bit	128M×8	DDR3		BCH9(9)	78ball		√			T/A	T/A			<u> </u>
	K4B2G0846C	2G bit	256M×8	DDR3	46		78ball		✓							
	K4B2G0846F-xYxx	2G bit	256M×8	DDR3L			78ball					T/A	T/A			
	K4B2G1646C	2G bit	128M×16	DDR3	46	HCH9(2)	96ball		✓							
	K4B2G1646E	2G bit	128Mx16	DDR3		BCK0(16)	96ball		T/A	T/A	T/A	T/A	T/A			
	K4B2G1646Q	2G bit	128Mx16	DDR3		BCK0(40)	96ball		T/A	T/A	T/A	T/A	T/A	T/A		
	K4B2G1646F-xYxx	2G bit	128Mx16	DDR3L			96ball			T/A	T/A	T/A	T/A	T/A		
	K4B4G1646B-xCxx	4G bit	256M×16	DDR3	35	HCH9(2)	96ball		<b>√</b>	T/A	T/A	T/A	T/A			
	K4B4G1646Q-xYxx	4G bit	256M×16	DDR3L		HYK0(20)	96ball			T/A	T/A	T/A	T/A	T/A		
	K4B4G1646D-xYxx	4G bit	256M×16	DDR3L	25	BYK0 (20)	96ball			T/A	T/A	T/A	T/A	T/A		
	K4B4G1646D-xCxx	4G bit	256M×16	DDR3	25	BYK0 ( 20 )	96ball			T/A	T/A	T/A	T/A			兼容性好
	K4W4G1646Q-xCxx	4G bit	256M×16	DDR3			96ball	1				T/A	T/A			K3PE0E000M RZQ需要
Samsung	K4B4G1646E-xYxx	4G bit	256M×16	DDR3L			96ball			T/A	T/A	T/A	T/A	T/A		改为150ohm
	KMKJS000VM	8Gb/2CS	256M×32	LPDDR2+eMMC		B309	162ball	1		.,	.,,	-7	.,			K3PE0E000A-XGC2 R2
	K3PE0E000A-XGC2	16Gb/2Channel		LPDDR2		5505	220ball	<del>                                     </del>				N/A	T/A			
	K3PE0E000M-XGC2	16Gb/2Channel	256Mx32x2Ch	LPDDR2			216ball	+				N/A	T/A			需要改为NC
	K4E8E304ED-EGCC	8Gb	256Mx32	LPDDR3	H		178ball	+	-	-	-	19/74	T/A	T/A	1	-
	K4E8E304ED-EGCC K4E8E304EE-EGCE	8Gb	256Mx32	LPDDR3			178ball	+	1		<b></b>		T/A	1/A	<b>_</b>	-
		8Gb 8Gb			<b> </b>			1	-				I/A	T/A	<b> </b>	-
	K4E8E324EB-AGCF		256Mx32	LPDDR3			168ball	<del>                                     </del>	<u> </u>					T/A		_
	K4E8E324EB-EGCF	8Gb	256Mx32	LPDDR3			178ball	1					T/A	T/A	ļ	_
	K3QF1F10DM-AGCE	8Gb/2Channel		LPDDR3			253ball	<u> </u>	L				T/A		ļ	_
	K3QF1F10EM-BGCF	8Gb		LPDDR3			216ball						T/A			_
	K4E6E304EE-EGCE	16Gb	512M×32	LPDDR3			178ball						T/A	T/A		
	K4E6E304EB-EGCF	16Gb	512M×32	LPDDR3			178ball						T/A	T/A	T/A	
	K3QF3F30BM-QGCF	16Gb	256M×32x2Ch	LPDDR3			216ball						T/A			
	K3QF3F30BM-BGCF	16Gb	256M×32x2Ch	LPDDR3			216ball						T/A			
	PE918-15E (PRN256M8V79DG8GQF-15E)	2G bit	256M×8	DDR3		17	78ball		T/A	T/A	T/A	T/A	T/A			
	PE936-15E (PRN256M8V89CG8GQF-15E)	2G bit	256Mx8	DDR3		20	78ball		T/A	T/A	T/A	N/A	N/A			
	PE947-15E (PRN256M8V80AG8RHF-15E)	2G bit	256Mx8	DDR3		20	78ball									
SPECTEK	PEB08-15E (PRN512M8V80AG8RHF-15E)	4G bit	512M×8	DDR3		40	78ball			T/A	T/A	T/A [1]	T/A			MICRON子品牌, 兼容性良好
	PEB15-15E (PRN256M16V80AG8GPF-15E)	4G bit	256Mx16	DDR3		30	96ball		T/A	T/A	T/A	T/A	T/A			
	PEB16-15E (PRM256M16V80AG8GPF-15E)	4G bit	256Mx16	DDR3		20	96ball			T/A	T/A	T/A	T/A			
	Z9QHG (SM128MX32U80MD1LGU-25FT)	4G bit	128Mx32	LPDDR2			134ball					T/A	T/A			
	D9QQG-25BT	8G bit	128Mx32x2Ch	LPDDR2			216ball					N/A	T/A			
	N2TU1G16GG-AC	1G bit	64M×16	DDR2			84ball		_							NANYA子品牌,兼容性良
	N2CB1G80GN-CG	1G bit	128M×8	DDR3	H		78ball	+	V	-	-			+	1	■ NANIA 」 印刷件 、 飛 谷 圧 目 好 、 特供指定渠道及客
					<b> </b>			+		-	-	.,	,	+	1	
	N2CB2G80GN	2G bit	256M×8	DDR3		2	78ball	+	<b>√</b>	1	ļ	√	√	+	1	使用。南亚科技指定经
Elixir	N2CB2G16BP-CG	2G bit	128M×16	DDR3		2	96ball	<del>                                     </del>	√							商:彩虹奥特姆(Aotom)
	N2CB2G16FP-DI	2G bit	128Mx16	DDR3		公司颗粒	96ball	1		T/A	T/A	T/A	T/A		ļ	、AVT、富鸿(FHL)、芯
	N2CB4G08DN-CG	4G bit	512M×8	DDR3		10	78ball	<u> </u>	L	T/A	T/A	T/A [1]	T/A		ļ	智(SMC)、伟世科技
	N2CB4G16BP-DI	4G bit	256Mx16	DDR3		公司颗粒	96ball			T/A	T/A	T/A	T/A			(WEISHI)、世平(WPI)
	N2CC4G16DP	4G bit	256Mx16	DDR3L			96ball			T/A	T/A	T/A	T/A			提供正品保固及售后服



Manufacturer	Part Number	Density	Organization	Туре	Process (nm)	片数	package	RK281x	RK290x RK2918	RK2928/RK30 28A/RK3128	RK2926/RK3026/ RK3036/RK3036G /RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	RK3368/RK3228A/ RK3228B/RK3229	RK3399	与RK兼容情况
	EM47DM1688SBA	2G bit	128M×16	DDR3		5	96ball		N/A							
	EM47EM0888SBA-150	2G bit	256Mx8	DDR3		20	78ball		T/A	N/A	N/A	T/A	T/A			
	EM47EM1688SBA-150	4G bit	256Mx16	DDR3		20	96ball		T/A							
Eorex	EM47EM1688SBB-150A	4G bit	256Mx16	DDR3		10	96ball			T/A	T/A	T/A	T/A			台湾颗粒厂商,
Eulex	EM47FM0888SBA-150	4G bit	512Mx8	DDR3		10	78ball			T/A	T/A					兼容性较好
	EM47FM0888SBA-150A	4G bit	512Mx8	DDR3		10	78ball			T/A	T/A					
	EM47EM3288MBA-125	8G bit	256Mx32	DDR3		10	136ball					T/A	T/A			
	EM45FM3288LBA-187F	16Gb/2Channel	256Mx32x2Ch	LPDDR2			220ball					N/A	T/A			
	EM68B16CWPA-25H	512M bit	32M×16	DDR2				<b>√</b>	<b>√</b>							
	EM6GE16EW5B-15H	4G bit	256M×16	DDR3		10	96ball		T/A	T/A	T/A	T/A	T/A			
Etron Tech	EM6GE16EWXC-12H	4G bit	256M×16	DDR3		20	96ball			T/A	T/A	T/A	T/A			台湾颗粒厂商,兼容性
Luon reen	EM6GE08EW8C-12H	4G bit	512Mx8	DDR3		20	78ball			T/A	T/A					较好
	EM6GE16EWXC-12H	4G bit	256M×16	DDR3			96ball			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		
																256M16在RK3066,
	P3R1GE4CFF-G8E	1G bit	64M×16	DDR2			84ball	<b>√</b>	<b>√</b>							RK31xx平台上需要添加
MIRA	P3R1GE3FGF-G8E	1G bit	128M×8	DDR2			84ball	<b>√</b>	<b>√</b>							定频相关补丁。并且对
IVIIKA	P3P4GF3BLF-GGN	4G bit	512M×8	DDR3		20	78ball			T/A	N/A	N/A	N/A			参考层完整性要求较
	P3P4GF4BLF-GGN	4G bit	256Mx16	DDR3	30	20	96ball			T/A		T/A	T/A			高,需要严格遵照我们 的布板要求布板。
	HXB18T1G160AF-25D	1G bit	64M×16	DDR2			84ball	<u> </u>	L.,							H3 10 IX 2575 10 IX 5
					_			<b>√</b>	√ .							256M16在RK3066,
	HXB18T2G160AF-25D	2G bit	128M×16	DDR2			84ball	✓	√							RK31xx平台上需要添加
SCSemicon	HXB15H2G800BF-15H	2G bit	256M×8	DDR3		53	78ball		N/A	T/A	N/A	T/A	T/A			定频相关补丁。并且对
SCSemicon	HXB15H2G160CF-13K	2G bit	128M×16	DDR3	-		96ball	1		T/A				_		参考层完整性要求较
	SCN13H2G160AF-13K	2G bit	128M×16	DDR3			96ball			T/A						高,需要严格遵照我们
	HXB15H4G800BF-15H HXB15H4G160BF-15H	4G bit 4G bit	512M×8 256Mx16	DDR3 DDR3		12+20 50(1333)	78ball 96ball		N/T <sup>[1]</sup> T/A	T/A	N/A	T/A <sup>[1]</sup> T/A	T/A T/A			的布板要求布板。
Unisemicon	HXB13H4G160AF-13KT	4G bit	256Mx16	DDR3			96ball			T/A	T/A					
	3CCD-1211A EL1250V	2G bit	256Mx8	DDR3		1600(20) EDJ2108BDBG	78ball		N/A	T/A	N/A	T/A	T/A			使用Elpida晶圆兼容性
ADATA	DWND-1211A EL1311V	4G bit	512Mx8	DDR3	30	20	78ball									一般。PCB不允许有参
	D2ND-1211A EL1345V	4G bit	256Mx16	DDR3		1600(20)	96ball			T/A	T/A	T/A	T/A			考层有割断的现象。
	D2ND-1211A NA1518V	4G bit	256Mx16	DDR3L			96ball			T/A	T/A	T/A	T/A			
ANOR	AM43Q2G08AFP-150C	2G bit	256Mx8	DDR3		20	78ball		N/A	T/A	N/A	T/A	T/A		ļ	使用Elpida晶圆兼容性
-	AM43Q4G08AFP-150C	4G bit	512Mx8	DDR3	+	30	78ball	1		T/A	N/A					一般。PCB不允许有参
	V59C1G01168QBASXJ25	1G bit	64M×16	DDR2			84ball	<b>√</b>	<b>V</b>							
ProMOS	V59C1G01168QBASXJ25 V73CAG01808RA JI9	1G bit	128M×8	DDR3	+	8	78ball	v	V V	1	1		1	1	1	
71011103	V59C1G02168QB	2G bit	128M×16	DDR3	+	۰	78ball 84ball	+	V	<del> </del>	<del></del>		<del>                                     </del>	+	<del> </del>	$\rightarrow$
	A 2 2 C T G 0 S T 6 O C	2G bit	120101×10	DURZ			04Ddii		v							
					1			1	1	1		<u> </u>				



Manufacturer	Part Number	Density	Organization	Туре	Process (nm)	片数	package	RK281x	RK290x RK2918	RK2928/RK30 28A/RK3128	RK2926/RK3026/ RK3036/RK3036G /RK3126	RK3168/RK3188/PX3	RK3288	RK3368/RK3228A/ RK3228B/RK3229	RK3399	与RK兼容情况
SMART	S4B2G0846C-HYH9	2G bit	256Mx8	DDR3		20	78ball					T/A	T/A			巴西颗粒, 国内用的不
JIMAKI	S4B2G0846D-HYK0	2G bit	256M×8	DDR3		20	78ball					T/A	T/A			多
	PME810816BBR-E6DN	1G bit	64M×16	DDR2			84ball	1						+		
	PMF510816ABR-G8DN	1G bit	64M×16	DDR3	+		96ball		<b>J</b>							
	PMF510808ABR-I9DN	1G bit	128M x 8	DDR3	+	19	78ball		•							
πΡΜ	PMF511816ABR-G8DN	2G bit		DDR3	1 1		96ball		<b>V</b>							<del>-</del>
	PMF511816DBR-KADN	2G bit	128Mx16	DDR3	1 1		96ball					T/A	T/A			<del>-</del>
	PMF512816BBR-KADN	4G bit	256Mx16	DDR3	1 1	50	96ball					T/A	T/A			<del>-</del>
	PMF512816DBR-KADN	4G bit	256Mx16	DDR3		30	96ball			T/A	T/A	T/A	T/A			
MT.MOSET	ED3E25608CE-P9	2G bit	256M×8	DDR3	1	40	78ball	1	T/A	T/A	N/A	T/A	T/A	+	1	
IVIT.IVIOSET	ED3E23608CE-P3	2G Dit	230IVI×0	DDK3		40	/ ODdii		1/A	1/A	N/A	1/A	1/A			
	VP5TQ1G0835-F9	1G bit	128M×8	DDR3			78ball		- √							İ
WINS	VP5TQ1G0835L-F9	1G bit	128M×8	DDR3			78ball									
WINS	VP5TQ2G1635FFP-F9	2G bit	128M×16	DDR3		4	96ball		<b>√</b>	N/A	N/A					
	VP5TQ2G0835L-F9	2G bit	256M×8	DDR3		14	78ball		<b>√</b>							
	+															
	D5128EETBPGGBU	4G bit	512Mx8	DDR3			78ball			T/A	T/A	T/A	T/A			256M16在RK3066,
Kingston	D2516EC4BXGGB	4G bit	256Mx16	DDR3			96ball			T/A	T/A	T/A	T/A			RK31xx平台上需要添加
	KB23AADL3E08G			LPDDR3			178ball						T/A			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
																かかた ま ボート・ト・ト
axeme	H2A402G1666BFBC	2G bit	128M×16	DDR3			96ball			T/A	T/A					
axeme	H2A404G0866CD8C	4G bit	512Mx8	DDR3			78ball					T/A	T/A			
ISDT	IL2BR20E8H	16G hit/2Channe	256Mx32x2Ch	LPDDR2	+ -		220ball						T/A			
1301	ILZBRZOLOTI	100 DIQZCIIdillie	ZJOIVIXJZXZCII	LFDDRZ			ZZUDAII						1/8			
	W632GG6KB-12	2G bit	128Mx16	DDR3			96ha11									
	W632GG6KB-15	2G bit	128Mx16	DDR3			96ha11			T/A	T/A	T/A	T/A			
Winbond	W634GG6LB-12	4G bit	256Mx16	DDR3	1		96ba11						1	1	1	
							1						1	+		-
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