Rockchip Solutions DDR SDRAM Support List 2019/11/25

Rockchip Solutions DDR SDRAM Support List

Ver 2.41 2019/11/25

## • 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	2019.05.11
2.39	Add some supporting messages	2019.07.19
2.40	Add some supporting messages	2019.09.30
2.41	Add some supporting messages  Add some supporting messages	2019.09.30
2.41	Add some supporting messages	2019.11.23

Rockchip Solutions DDR SDRAM Support List 2019/11/25



## • Symbol

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

## **•**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.

[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]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.

[7]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.

[8]Only after week code 1937 (means 2019, week 37th ) can be used, the product with early week code may cause system crash or unstable.





						RK290x		RK2926/RK3026/	RK3066/RK3066A/PX2		RK3368/RK32	RV1108/				RK3326/			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	- √	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A		N/A		
	EDJ1108DJBG	1G bit	128M×8	DDR3	78ball	√							N/A	N/A	N/A	N/A		N/A		
	EDJ2108DEBG	2G bit	256M×8	DDR3	78ball	✓	T/A	T/A	√	- √										
	EDJ2108BDBG	2G bit	256M×8	DDR3	78ball	<b>√</b>	T/A	N/A	√	- √										
	EDJ2108EDBG	2G bit	256M×8	DDR3L	78ball				T/A	T/A										
	EDJ2116DEBG	2G bit	128M×16	DDR3	96ball	√														
	EDJ2116EEBG	2G bit	128M×16	DDR3L	96ball	T/A			(6)											
	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 <sup>[1]</sup>	T/A										除个别老款颗粒如:
Elpida	EDJ4208EBBG	4G bit	512M×8	DDR3L	78ball		T/A	N/A	T/A [1]	T/A										EDJ2108BDBG对pcb要
Lipida	EDJ4216BASE	4G bit	256M×16	DDR3	96ball	√														求偏高外总体兼容情况
	EDJ4216BBBG	4G bit	256M×16	DDR3	96ball	√ T/A			√ T/A	√ T/A										良好
	EDJ4216EBBG EDJ4216EFBG	4G bit 4G bit	256M×16 256M×16	DDR3L DDR3L	96ball 96ball	T/A	T/A	T/A	T/A	T/A			_							
	EDB4032B2MA	4Gb/2CS	64M×32×2pcs	LPDDR2	134ball	N/A	1/8	N/A	T/A	T/A			N/A	N/A	N/A	N/A		N/A		
	EDB8132B3MA	8Gb/2CS	128M×32×2pcs	LPDDR2	134ball	N/A		N/A	T/A	T/A			N/A	N/A	N/A	N/A		N/A		
	EDBM164B1PD-1D-I	12Gb/2channel	256M×32+128M×32	LPDDR2	220ball	N/A		N/A	N/A	T/A			N/A		N/A	N/A		N/A		
	EDF8132A3MA-GD-F-D	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A								
	EDF8132A1MC-GD-F-D	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A								1
	FA232A1MA-GD-F	16G bit	512M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A								
	EDFA232A2MA-GD-F-D	16G bit	512M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A								
	MT47H64M16HR-25	16 54	64M×16	DDR2	84ball	,	NIZA	NI/A	NIZA	NI/A	NI/A		N1 / A	NI /A	NI/A	NI/A		NI/A		
	MT41J128M8JP-15E:G(D9MNL)	1G bit 1G bit	128M×8	DDR3	78ball	√ √	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		
	MT41X128M8DA-107:J(D9RDJ)	1G bit	128M×8	DDR3L	78ball				T/A				N/A	N/A	N/A	N/A		N/A		
	MT41K64M16TW-1073(D9SFT)	1G bit	64M×16	DDR3L	96ball				.,,			T/A	N/A	N/A	N/A	N/A		N/A		
	MT41J128M16HA-15E:D(D9LGQ)	2G bit	128M×16	DDR3	96ball	<b>√</b>						-,	,		,	,		,		
	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				m								T/A		T/A	
	MT41K512M8RH-125:E(D9QBJ) MT41K512M8RG-107:N(D9RVX)	4G bit	512M×8 512M×8	DDR3L DDR3I	78ball 78ball		T/A	T/A	T/A <sup>[1]</sup>	T/A										
	MT41K512M8KG-107:N(D9KVX) MT41K512M8DA-107:P(D9SGQ)	4G bit	512M×8 512M×8	DDR3L	78ball				T/A				-	_						
	MT41K312M8DA-107:P(D9SGQ) MT41K256M16RE-15E:D(D9PBF)	4G bit	256M×16	DDR3L	96ball	√			1/8											
	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		
Micron	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	兼容性好
WIICIOII	MT41K256M16TW-107 IT:P(D9SHG)	4G bit	256M×16	DDR3L	96ball									T/A				T/A		<b></b> 雅谷注灯
	MT41K512M16HA-125:A(D9STQ)	8G bit	512M×16	DDR3L	96ball									✓				T/A		
	MT41K512M16HA-107:A(D9SDQ)	8G bit	512M×16	DDR3L	96ball		L		T/A	T/A										
	MT40A256M16GE-083E:B(D9TGQ)	4G bit	256M×16	DDR4 DDR4	96ball	N/A N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	T/A	N/A N/A	T/A		T/A	N/A		
	MT40A256M16GE-075E:B (D9TGS) MT40A512M16TB-062E:J(D9WWP)	4G bit 8G bit	256M×16 512M×16	DDR4	96ball 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	1	N/A N/A		1	T/A	N/A N/A	T/A	
	MT40A512M16JY-083E:B(D9TBK)	8G bit	512M×16	DDR4	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	T/A		1/A	N/A	1/A	
	MT40A1G16WBU-083E:B(D9TPH)	16G bit	1024M×16	DDR4	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	T/A			N/A		
	MT42L128M32D1GU-25 WT:A(Z9QHG)	4G bit	128M×32	LPDDR2	134ball	N/A		N/A	T/A	T/A	.,	,	N/A	N/A	N/A	N/A		N/A		
	MT42L256M16D1GU-18 WT:A(D9RLT)	4G bit	256M×16	LPDDR2	134ball	N/A		N/A				T/A	N/A	N/A	N/A	N/A		N/A		
	MT42L128M64D2LL-25 WT:A(D9QQG)	8G bit	128M×32×2Ch	LPDDR2	216ball	N/A		N/A	N/A	T/A			N/A	N/A	N/A	N/A		N/A		
	MT52L256M32D1PF-107 WT:B(D9SRZ)	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A	T/A	T/A	T/A		T/A	T/A	T/A	
	MT52L512M32D2PF-107 WT:B(D9SSF)	16G bit	512M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A	T/A	N/A	T/A	T/A	T/A	T/A	NIZZ	T/A	NIZA	
	MT53B256M32D1NP-062 WT:C(D9TFT)	8G bit	256M×32 256M×32	LPDDR4 LPDDR4	200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A		T/A	N/A	
	MT53E256M32D2DS-053 WT:B(D9WRB)	8G bit	256M×32 512M×32	LPDDR4	200ball 200ball	N/A	N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	T/A [7]	N/A	N/A	N/A	T/A [7]	N/A	
	MT53B512M32D2NP-062 WT:C(D9TFW) MT53D512M32D2DS-053 WT:D(D9WHZ)	16G bit 16G bit	512M×32 512M×32	LPDDR4	200ball 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	T/A	N/A N/A	N/A N/A	N/A N/A	T/A	N/A N/A	
	MT53B512M64D4NK-053 WT:C(D9TGF)	32G bit	512M×64	LPDDR4	366ball	N/A	N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	,	T/A		
	III. 333312IVIOTDTIVIC 033 WI.C(D31GF)	320 DIC	JIEIVI OT	LI DUNT	Joobail	14/74	17/0	11/10	11/15	14/74	11/6	14/74	III/A	1/4	IV/A	11/14	IV/A	1/6	11/7	
																1				
											İ		1			1				



						DK30C	RK2928/RK30	RK2926/RK3026/	DK3066 (DK3066 V 1573		RK3368/RK32	DV11001				nkaaac.		RK339	9PRO	
Manufacturer	Part Number	Density	Organization	Туре	package	RK290x	28A/RK3128/	RK3036/RK3036G	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	28A/RK3228B	RV1108/	RK3228H	RK3399	RK3328	RK3326/	RK1808	l	NPU_RA 与RK兼容	情况
			-	1.		RK2918	PX3-SE	/RK3126	RK3168/RK3188/PX3		/RK3229/PX5	RK3308				PX30		CPU_RAM	M	
	H5PS1G63CFP	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		
	H5PS1G63EFR	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		
	H5TO1G83DFR	1G bit	128M×8	DDR3	78ball	√		,	T/A	T/A	,		N/A	N/A	N/A	N/A		N/A		
	H5TO1G83TFR	1G bit	128M×8	DDR3	78ball	V			-,	-,			N/A	N/A	N/A	N/A		N/A		
	H5TQ2G83CFR	2G bit	256M×8	DDR3	78ball	V	<b>√</b>	√	<b>√</b>	<b>√</b>			,,,,	,,,,	,,,,	,		11,77		
	H5TQ2G83BFR	2G bit	256M×8	DDR3	78ball	T/A	T/A	T/A	<b>V</b>	· ·										
	H5TQ2G83EFR	2G bit	256M×8	DDR3	78ball	T/A	T/A	T/A	T/A	T/A										
	H5TQ2G83FFR	2G bit	256M×8	DDR3	78ball	1/4	T/A	T/A	1/8	1//										
	H5TQ2G83GFR	2G bit	256M×8	DDR3	78ball		1/5	1/1/	T/A	T/A										
	H5TQ2G63BFR	2G bit	128M×16	DDR3	96ball	<b>V</b>			1/A	1/A				_						
			128M×16	DDR3	96ball	<u> </u>	T/A	T/A												
	H5TQ2G63FFR	2G bit 2G bit	128M×16	DDR3	96ball		T/A		T/A	T/A	T/A	T/A	T/A	+	T/A	T/A	_			
	H5TQ2G63GFR						I/A	T/A	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	ļ.,					T/A	T/A					T/A		T/A	
	H5TQ2G63DFR	2G bit	128M×16	DDR3	96ball	√			T/A	T/A	1		-	+		-		<b>—</b>		
	H5TQ4G83AFR	4G bit	512M×8	DDR3	78ball		T/A	T/A	T/A <sup>[1]</sup>	T/A										
	H5TC4G83AFR	4G bit	512M×8	DDR3L	78ball				T/A <sup>[1]</sup>	T/A										
	H5TQ4G83MFR	4G bit	512M×8	DDR3	78ball		T/A	T/A	T/A [1]	T/A										
	H5TC4G83BFR	4G bit	512M×8	DDR3L	78ball		T/A	T/A	.,,,											
	H5TQ4G63MFR	4G bit	256M×16	DDR3	96ball	<b>√</b>	T/A	T/A	T/A	T/A										
	H5TQ4G63AFR	4G bit	256M×16	DDR3	96ball	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A		T/A		
Hvnix	H5TC4G63AFR	4G bit	256M×16	DDR3L	96ball	1/4	T/A	T/A	T/A	T/A	1/8	1//	1//	1//	1/^	1/6		1//		
пушх	H5TC4G63CFR	4G bit	256M×16	DDR3L	96ball		- '/^	1/5	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		
	H5TQ4G63EFR	4G bit	256M×16	DDR3	96ball	-			1/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	
	H5TO4G63CFR	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	1/A	T/A	1/A	
	H5TC8G63AMR	8G bit	512M×16	DDR3L	96ball		1/A	I/A	I/A	I/A	1/A	I/A	I/A	T/A	1/A	I/A	_	T/A		
	H5TC8G63CMR		512M×16		96ball									I/A				I/A		
	H5AN4G6NAFR	8G bit 4G bit	256M×16	DDR3L DDR4	96ball	NIZA	NIZA	N/A	NI/A	T/A	NIZA	NI/A	T/A	N/A	7/8		T/A	NI/A	7/4	
	H5AN4G6NBJR	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	T/A		T/A		T/A	N/A	T/A	
			250W×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	T/A	N/A			T/A	N/A	T/A	
	H5AN8G6NAFR H5AN8G6NCJR	8G bit 8G bit	512M×16	DDR4	96ball			N/A N/A	N/A N/A		N/A N/A		I/A	N/A	T/A		T/A	N/A	T/A	
				DDR4	96ball	N/A	N/A			N/A		N/A					T/A	N/A	T/A	
	H5ANAG6NAMR	16G bit	1024M×16			N/A	N/A	N/A	N/A	N/A	N/A	N/A	NI/A	N/A	NI/A	NI/A	T/A	N/A	T/A	
	H9TCNNN8JDMMPR	8Gb/2CS	256M×32	LPDDR2	134ball	N/A		N/A	T/A	T/A			N/A	N/A	N/A			N/A		
	H8TJR00X0MLR	8Gb/2CS	256M×32	LPDDR2	168ball	N/A		N/A	T/A	T/A			N/A	N/A	N/A	N/A		N/A		
	H9TKNNN8KDMPQR	8Gb/2Channel	128M×32×2Ch	LPDDR2	216ball	N/A	T/A [5]	N/A					N/A	N/A	N/A	N/A		N/A		
	H9TKNNNBPDMRAR	16Gb/2Channel	256M×32×2Ch	LPDDR2	220ball	N/A		N/A	N/A	T/A			N/A	N/A	N/A	N/A		N/A		
	H9CCNNN8JTALAR	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A								
	H9CCNNN8GTMLAR	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A	T/A	T/A	T/A	T/A		T/A		
	H9CCNNN8JTMLAR	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		
	H9CCNNNBJTALAR	16G bit	512M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A		1	N/A	T/A	T/A	T/A	T/A		T/A		
	H9CCNNNBLTALAR	16G bit	512M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A	T/A		T/A	T/A				
	H9CCNNNBJTMLAR	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	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		
	H9CKNNNCPTMRPR	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		
	H9HCNNN8KUMLHR	8G bit	256M×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	
	H9HCNNNBPUMLHR	16G bit	512M×32	LPDDR4	200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A		N/A		N/A	
	H9HCNNNBKUMLHR	16G bit	512M×32	LPDDR4	200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	T/A	N/A	
	H9HKNNNDBUMUBR	24G bit	384M×64	LPDDR4	366ball	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	
	H9HKNNNCUUMUBR	32G bit	512M×64	LPDDR4	366ball	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	
	H9HKNNNCTUMUBR	32G bit	512M×64	LPDDR4	366ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	T/A	N/A	
	1131 KININI NETONIODK	323 DIL	312IVI × 04	LI DUNA	Joobali	N/A	14/A	IV/A	IN/M	N/A	IV/A	14/ A	14/A	1/4	N/A	14/ A	N/A	1/A	11/14	
		1		1	1	1	1	ı		1	1	1	1	1	1	1	I	1	1	



	T			1	1	1	RK2928/RK30	RK2926/RK3026/		1	RK3368/RK32	_		1		_	_	RK3399	2000	
Manufacturer	Part Number	Density	Organization	Туре	package	RK290x	28A/RK3128/	RK3036/RK30366	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	28A/RK3228B	RV1108/	BK3228H	RK3399	BK3328	RK3326/	RK1808	KKSSSS	JPRO	与RK兼容情况
···unanacture:	i art itamber	Delisity	Organization	Туре	package	RK2918	PX3-SE	/RK3126	RK3168/RK3188/PX3	KKJ200	/RK3229/PX5	RK3308	KKJZZOII	KKJJJJ	KKJJZO	PX30	KKIOOO	CPU_RAM	NPU_KA	一小儿水牛用儿
	NT5TU32M16CG-3C	512M bit	32M×16	DDR2	84ball	<b>√</b>	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A		N/A	VI.	
	NT5TU32M16FG	512M bit	32M×16	DDR2	84ball		N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	N/A		N/A		
	NT5TU64M16HG	1G bit	64M×16	DDR2	84ball		N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	N/A		N/A		
	NT5CB64M16GP	1G bit	64M×16	DDR3	96ball			T/A			T/A	T/A	N/A	N/A	N/A	N/A		N/A		
	NT5CB128M8DN	1G bit	128M×8	DDR3	96ball	√							N/A	N/A	N/A	N/A		N/A		
	NT5CC128M8DN	1G bit	128M×8	DDR3L	78ball	√			T/A	T/A			N/A	N/A	N/A	N/A		N/A		
	NT5CB128M8FN	1G bit	128M×8	DDR3	78ball				T/A	T/A			N/A	N/A	N/A	N/A		N/A		
	NT5CC128M8GN	1G bit	128M×8	DDR3L	78ball				T/A				N/A	N/A	N/A	N/A		N/A		
	NT5CB256M8GN	2G bit	256M×8	DDR3	78ball	<b>√</b>	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	V			,											
	NT5CB128M16FP	2G bit	128M×16	DDR3	96ball	<b>√</b>	T/A	T/A	T/A	T/A										
	NT5CC128M16IP	2G bit	128M×16	DDR3L	96ball		T/A	T/A	T/A	T/A	T/A	T/A								
	NT5CB128M16IP	2G bit	128M×16	DDR3	96ball		T/A	T/A	T/A	T/A	T/A	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	
	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 [1]	T/A	,									
	NT5CC512M8CN	4G bit	512M×8	DDR3L	78ball	+	T/A	T/A		T/A										
							I/A	I/A	T/A [1]	1/A										
Nanya	NT5CC512M8DN	4G bit	512M×8	DDR3L	78ball				T/A		T/A	T/A	T/A		T/A	T/A				兼容性好
	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		
	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		
	NT5AD256M16B2	4G bit	256M×16	DDR4	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	T/A			N/A		
	NT5AD256M16D4	4G bit	256M×16	DDR4	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	T/A	T/A		N/A	T/A	
	NT5AD512M16A4	8G bit	512M×16	DDR4	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			T/A	N/A	T/A	
	NT6TL128M32AQ	4G bit	128M×32	LPDDR2	168ball	N/A		N/A	T/A	T/A			N/A		N/A	N/A		N/A		
	NT6TL256F32AI	8G bit	256M×32	LPDDR2	134ball	N/A		N/A	T/A	T/A			N/A	N/A	N/A	N/A		N/A		
	NT6TL256T32AI	8G bit	256M×32	LPDDR2	134ball	N/A		N/A	T/A	T/A			N/A	N/A	N/A	N/A		N/A		
	NT6TL256T32AQ	8G bit	256M×32	LPDDR2	168ball	N/A		N/A	T/A	T/A			N/A	N/A	N/A	N/A		N/A		
	NT6CL128M32BM	4G bit	128M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A		N/A								
	NT6CL128M32CM	4G bit	128M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A			N/A		T/A			T/A	T/A	T/A	
	NT6CL256T32CM	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A			N/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	
	NT6CL256T32BM	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A	T/A	N/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	
	NT6CL256M32AM	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A	T/A	N/A	T/A	T/A		T/A				
	NT6CL512T32AM	16G bit	512M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A [8]	T/A	N/A	T/A [8]	T/A	T/A [8]					
	NT6CL256T32AQ	8G bit	256M×32	LPDDR3	168ball	N/A	N/A	N/A	N/A		T/A	N/A								



Manufacturer	Part Number	Density	Organization	Туре	package	RK290x RK2918	RK2928/RK30 28A/RK3128/ PX3-SE	RK2926/RK3026 RK3036/RK3036 /RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	RK3368/RK32 28A/RK3228B /RK3229/PX5	RV1108, RK3308		RK3399	RK3328	RK3326/ PX30	RK1808	CPU_RAM	9PRO NPU_RA M	与RK兼容情况
	K4T1G164QE K4B1G0846G	1G bit 1G bit	64M×16 128M×8	DDR2 DDR3	84ball 78ball	<b>√</b>	N/A	N/A	N/A T/A	N/A T/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	
	K4B1G1646I-xCxx	1G bit	64M×16	DDR3	96ball	•			1/4	1/4		T/A	N/A	N/A	N/A	N/A		N/A		
	K4B1G1646I-xYxx	1G bit	64M×16	DDR3L	96ball							T/A	N/A	N/A	N/A	N/A		N/A		
	K4B2G0846C	2G bit	256M×8	DDR3	78ball	√														
	K4B2G0846F-xYxx K4B2G1646C	2G bit	256M×8 128M×16	DDR3L DDR3	78ball 96ball	<b>.</b>			T/A	T/A										
	K4B2G1646E	2G bit 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	T/A				
	K4B2G1646F-xYxx	2G bit	128M×16	DDR3L	96ball		T/A	T/A	T/A	T/A	T/A	T/A				T/A	T/A		T/A	
	K4B4G0846E-xCxx	4G bit	512M×8	DDR3	78ball						T/A	T/A	T/A		T/A	T/A				
	K4B4G1646B-xCxx	4G bit	256M×16	DDR3	96ball	√	T/A	T/A	T/A	T/A										
	K4B4G1646Q-xYxx K4B4G1646D-xYxx	4G bit 4G bit	256M×16 256M×16	DDR3L DDR3L	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				
	K4B4G1646D-xCxx	4G bit	256M×16	DDR3	96ball		T/A	T/A	T/A	T/A	1/4	1/1	1//		1/1	1/6				
	K4W4G1646Q-xCxx	4G bit	256M×16	DDR3	96ball				T/A	T/A										
	K4B4G1646E-xYxx	4G bit	256M×16	DDR3L	96ball		T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A	T/A		T/A		skie oby kal, ácy
	K4B4G1646E-xCxx K4B4G1646E-BMMA	4G bit 4G bit	256M×16 256M×16	DDR3	96ball 96ball		T/A		T/A	T/A	T/A	T/A		T/A			T/A	T/A	T/A	兼容性好 K3PE0E000M RZQ需要
	K4B4G1646D-xYxx	8G bit	256M×16 512M×16	DDR3L DDR3L	96ball	N/A	N/A	N/A	N/A	T/A			T/A	T/A √	T/A	T/A		T/A T/A		改为150ohm
Samsung	K4A4G165WE-xCxx	4G bit	256M×16	DDR4	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A		T/A		N/A		K3PE0E000A-XGC2 RZQ
	K4A8G165WB-xCxx	8G bit	512M×16	DDR4	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	T/A		T/A	N/A	T/A	需要改为NC
	K4A8G165WC-xCxx	8G bit	512M×16	DDR4	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			T/A	N/A	T/A	mi se ce como
	K3PE0E000A-XGC2	16Gb/2Channel	256M×32×2Ch	LPDDR2	220ball	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A		
	K3PE0E000M-XGC2 K4F8F304FD-FGCC	16Gb/2Channel 8G bit	256M×32×2Ch 256M×32	LPDDR2	216ball 178ball	N/A N/A	N/A N/A	N/A N/A	N/A N/A	T/A	N/A T/A	N/A N/A	N/A	N/A	N/A	N/A		N/A		
	K4E8E304ED-EGCC K4E8E304EE-EGCE	8G bit	256M×32 256M×32	LPDDR3	178ball	N/A N/A	N/A N/A	N/A N/A	N/A N/A	T/A	1/A	N/A N/A		T/A				T/A		
	K4E8E324EB-AGCF	8G bit	256M×32	LPDDR3	168ball	N/A	N/A	N/A	N/A	-,	T/A	N/A								
	K4E8E324EB-EGCF	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	T/A	T/A	N/A	T/A	T/A	T/A	T/A		T/A		
	K3QF1F10DM-AGCE	8Gb/2Channel	128M×32×2Ch	LPDDR3	253ball	N/A	N/A	N/A	N/A	T/A		N/A								
	K3QF1F10EM-BGCF	8G bit	128M×32×2Ch	LPDDR3	216ball 178ball	N/A N/A	N/A N/A	N/A N/A	N/A N/A	T/A	T/A	N/A N/A	T/A		T/A	T/A				
	K4E6E304EE-EGCE K4E6E304ED-EGCE	16G bit 16G bit	512M×32 512M×32	LPDDR3 LPDDR3	1/8ball 178ball	N/A N/A	N/A N/A	N/A N/A	N/A N/A	T/A	1/A	N/A N/A	1/A		1/A	1/A				
	K4E6E304EB-EGCF			LPDDR3		N/A			N/A	T/A	T/A	N/A	T/A	T/A	T/A	T/A		T/A	T/A	
	K4E6E304EC-EGCF	16G bit 16G bit	512M×32 512M×32	LPDDR3	178ball 178ball	N/A	N/A N/A	N/A N/A	N/A	T/A		N/A	T/A	T/A		T/A		T/A		
	K4EBE304EC-EGCF	32G bit	1024M×32	LPDDR3	178ball	N/A	N/A N/A	N/A N/A	N/A N/A			N/A	T/A			T/A				
	K3QF3F30BM-QGCF K3OF3F30BM-BGCF	16G bit 16G bit	256M×32×2Ch 256M×32×2Ch	LPDDR3 LPDDR3	216ball 216ball	N/A		N/A		T/A		N/A	_							
	K4F8F304HB-MGxx	8G bit	256M×32×2Cn 256M×32	LPDDR3 LPDDR4	216ball 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	T/A	N/A	N/A	N/A	T/A	N/A	
	K4F6E3S4HM-MGxx	16G bit	512M×32	LPDDR4	200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A		T/A		,	N/A		N/A	
	K3RG2G20CM-MGCJ	32G bit	512M×64	LPDDR4	366ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A [7]	N/A	N/A	N/A	T/A [7]	N/A	
	PE918-15E	2G bit	256M×8	DDR3	78ball	T/A	T/A	T/A	T/A	T/A										
	(PRN256M8V79DG8GQF-15E)																			
	PE936-15E	2G bit	256M×8	DDR3	78ball	T/A	T/A	T/A	N/A	N/A										
	(PRN256M8V89CG8GQF-15E)	20 511	25011110	5515	700011	.,	.,,	.,,,	1474	,										
	PEB08-15E	4G bit	512M×8	DDR3	78ball				m											
	(PRN512M8V80AG8RHF-15E)	4G DIT	512M×8	DDR3	/8Dall		T/A	T/A	T/A [1]	T/A										
	PEB15-15E																			
	(PRN256M16V80AG8GPF-15F)	4G bit	256M×16	DDR3	96ball	T/A	T/A	T/A	T/A	T/A		1	1	l	l					
	(							1		_		_	1							
	PEB16-15E	4G bit	256M×16	DDR3	96ball		T/A	T/A	T/A	T/A										
	(PRM256M16V80AG8GPF-15E)						,	, i												
	PE017	4G bit	256M×16	DDR3	96ball			T/A		1		1	1	l	l					
	(SUU256M16V90BG8LY-125TP)	<del>10 bit</del>	OI×IVIOC3	CHOC	<del>200411</del>			1/4		1		1	1	l	l					
	PE039																			
	(SUU256M16V90BG8LY-125TP)	4G bit	256M×16	DDR3	96ball						T/A	T/A								
SPECTEK																				MICRON子品牌,
	Z9QHG (SM128MX32U80MD1LGU-25FT)	4G bit	128M×32	LPDDR2	134ball	N/A		N/A	T/A	T/A			N/A	N/A	N/A	N/A		N/A		兼容性良好
										_		_	_							
	PB047	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A				
	(SS256M32V01MD1LPF-107BT) PB008												1							
	(SM512M322E0FD4LHL)	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	1		N/A		T/A	l			T/A		
	PS006	0017	25014 22	100004	2001 11	N1/4	N/A	N/A	21/2	21/4	N/A	NICE	21/4	N1 / A	N1 / A	N1 / 0	NIZA	NIZA	N1 / A	
	(SU256M32Z01MD1BNP)	8G bit	256M×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	
	PS007	16G bit	512M×32	LPDDR4	200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	T/A	N/A	
	(SU512M32Z01MD2BNP)	100 Dit	JAZIVI OJZ		2.Joban	. 1/ ^	.4/17	. 1/ 5	.7/2	.4/17	/^	.4/14	.4/5	./^	,^	/ //	/^	-/^	/^	
	(PS086)	16G bit	256M×64	LPDDR4	366ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	T/A	N/A	
	SU256M64Z00MD4DKN PS004							+		-				-	- 1	-	-			
	(SM512M64Z91MD4BNK)	32G bit	512M×64	LPDDR4	366ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	T/A	N/A	
	PS035	226 1.7	51314 54	100004	2661 11															
	(SU512M64Z01MD4BNK)	32G bit	512M×64	LPDDR4	366ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	T/A	N/A	
	PS013	32G bit	512M×64	I PDDR4	366ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	T/A	N/A	
		323 DIL	312IVI × 04	LI DONA	Jouran	14/ PA	H/A	N/A	N/A	IN/M	N/A	MA	IN/M	1/4	IV/M	N/M	IV/A	1/8	H/A	
	(SM512M64Z01MD4BNK)					1		1	1	1			1			<b>_</b>	<b>_</b>			
	(SM512M64Z01MD4BNK)					4			1	1		1	1	<b></b>		<b>!</b>	<b>!</b>			NANYA子品牌, 兼容性良
		1C bit	64M×16	DDB3	9.4ball	-1									NI/A					
	N2TU1G16GG-AC	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		好,特供指定渠道及客
	N2TU1G16GG-AC N2CB1G80GN-CG	1G bit	128M×8	DDR3	78ball	√	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		户使用。南亚科技指定
	N2TU1G16GG-AC N2CB1G80GN-CG N2CB2G80GN	1G bit 2G bit	128M×8 256M×8	DDR3 DDR3	78ball 78ball	√ √	N/A	N/A	N/A ✓	N/A ✓	N/A			,	,					户使用。南亚科技指定 经销商:彩虹奥特姆
Elixir	N2TU1G16GG-AC N2CB1G80GN-CG	1G bit	128M×8	DDR3 DDR3 DDR3	78ball	√			√	<b>V</b>	N/A			,	,					户使用。南亚科技指定
Elixir	N2TU1G16GG-AC N2CB1G80GN-CG N2CB2G80GN N2CB2G16BP-CG N2CB2G16BP-DI	1G bit 2G bit 2G bit 2G bit	128M×8 256M×8 128M×16 128M×16	DDR3 DDR3 DDR3 DDR3 DDR3	78ball 78ball 96ball 96ball	√ √	T/A	T/A	√ T/A	√ T/A	N/A			,	,					户使用。南亚科技指定 经销商:彩虹奥特姆 (Aotom)、AVT、富鸿
Elixir	N2TU1G16GG-AC N2CB1680GN-CG N2CB2G80GN N2CB2G168P-CG	1G bit 2G bit 2G bit	128M×8 256M×8 128M×16	DDR3 DDR3 DDR3	78ball 78ball 96ball	√ √			√	<b>V</b>	N/A			,	,					户使用。南亚科技指定 经销商:彩虹奥特姆 (Aotom)、AVT、富鸿 (FHL)、芯智(SMC)、伟 世科技 (WEISHI)、世平 (WPI),提供正品保固及
Elixir	NZTUIGI6GG-AC NZCBIGB0GN-CG NZCBZGB0GN NZCBZG16BP-CG NZCBZG16BP-DI NZCBZG16BP-DI NZCBZG16BP-DI NZCBZGBP-DI	1G bit 2G bit 2G bit 2G bit 2G bit 4G bit 4G bit	128M×8 256M×8 128M×16 128M×16 512M×8 256M×16	DDR3 DDR3 DDR3 DDR3 DDR3 DDR3 DDR3	78ball 78ball 96ball 96ball 78ball 96ball	√ √	T/A T/A T/A	T/A T/A T/A	√  T/A  T/A (1)  T/A	√ T/A T/A T/A	N/A			,	,					户使用。南亚科技指定 经销商:彩虹奥特姆 (Aotom)、AVT、富鸿 (FHL)、芯智(SMC)、伟 世科技(WEISHI)、世平
Elixir	N2TU1G16GG-AC N2CB1680GN-CG N2CB2G80GN N2CB2G80GN N2CB2G16BP-CG N2CB2G16FP-DI N2CB4G08DN-CG	1G bit 2G bit 2G bit 2G bit 4G bit	128M×8 256M×8 128M×16 128M×16 512M×8	DDR3 DDR3 DDR3 DDR3 DDR3 DDR3 DDR3 DDR3	78ball 78ball 96ball 96ball 78ball	√ √	T/A T/A	T/A T/A	√ T/A T/A <sup>[1]</sup>	√ T/A T/A	N/A			,	,					户使用。南亚科技指定 经销商:彩虹奥特姆 (Aotom)、AVT、富鸿 (FHL)、芯智(SMC)、伟 世科技(WEISHI)、世平 (WPI),提供正品保固及



							BK3938/BK30	RK2926/RK3026/			RK3368/RK32							RK339	99PRO	
Manufacturer	Part Number	Density	Organization	Туре	package	RK290x RK2918	28A/RK3128/ PX3-SE			RK3288	28A/RK3228B /RK3229/PX5	RV1108/ RK3308	RK3228I	H RK3399	RK3328	RK3326/ PX30	RK1808	CPU_RAM	NPU_RA	与RK兼容情况
	EM47DM1688SBA	2G bit	128M×16	DDR3	96ball	N/A														
	EM47EM0888SBA-150	2G bit	256M×8	DDR3	78ball	T/A	N/A	N/A	T/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										台湾颗粒厂商,
Eorex	EM47FM0888SBA-150	4G bit	512M×8	DDR3	78ball		T/A	T/A	,											兼容性较好
	EM47FM0888SBA-150A	4G bit	512M×8	DDR3	78ball		T/A	T/A												AR II III DON
	EM47EM3288MBA-125	8G bit	256M×32	DDR3	136ball				T/A	T/A										
	EM45FM3288LBA-187F	16Gb/2Channel	256M×32×2Ch	LPDDR2	220ball	N/A		N/A	N/A	T/A			N/A	N/A	N/A	N/A		N/A		
	EM68B16CWPA-25H	512M bit	32M×16	DDR2	84ball	V	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A		N/A		
	EM68B16CWQK-18H	512M bit	32M×16	DDR2	84ball	•	N/A	N/A	N/A	N/A	N/A	T/A	N/A		N/A	N/A		N/A		
	EM68B16CWQH-18H	512M bit	32M×16	DDR2	84ball		N/A	N/A	N/A	N/A	N/A	T/A	N/A		N/A	N/A		N/A		
	EM6GC16EWKG-12H	1G bit	64M×16	DDR3	96ball		IV/A	IV/A	IVA	IV/A	T/A	T/A	N/A		N/A	N/A		N/A		
	EM6GC16EWKE-12H	2G bit	128M×16	DDR3	96ball						1/6	T/A	14/7	14/7	14/ A	14/74		IN/A		
	EM6GC16EWXD-12H	2G bit	128M×16	DDR3	96ball					1		T/A				1				
	EM6GD16EWKG-12H	2G bit	128M×16	DDR3	96ball						T/A	T/A								
	EM6GD16EWXF-12H	2G bit	128M×16	DDR3	96ball					1	T/A	T/A				1				台湾颗粒厂商,兼容性
	EM6GD16EWBH-12H	2G bit	128M×16	DDR3	96ball		T/A				1/8	1/1					T/A		T/A	较好
Etron Tech	EM6GE16EW5B-15H	4G bit	256M×16	DDR3	96ball	T/A	T/A	T/A	T/A	T/A							1/4		1/1	
	EM6GE08EW8C-12H	4G bit	512M×8	DDR3	78ball	1/5	T/A	T/A	1/8	1//										
	EM6GE16EWXC-12H	4G bit	256M×16	DDR3	96ball		T/A	T/A	T/A	T/A										
	EM6HE16EWXD-12H	4G bit	256M×16	DDR3L	96ball		.,,,	- 7.		.,,,	T/A	T/A	T/A		T/A	T/A	T/A		T/A	
	EM6GE16EWXD-10H	4G bit	256M×16	DDR3	96ball						1/4	1/1	1//		1/^	1/1	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	1/4	T/A	1/6	
	EM6GE16EW5F-12H	4G bit	256M×16	DDR3	96ball		.,,,	- 7.	176	.,,,	.,	.,,,	T/A		T/A	T/A		-,,		
	EM6HE16EW5F-12H	4G bit	256M×16	DDR3L	96ball								T/A		T/A	T/A				
	EM6GE16EWAKG-10H	4G bit	256M×16	DDR3	96ball								.,,,	T/A	.,,,	.,,,		T/A		
	M14D1G1664A-1.8BG2SU	1G bit	64M×16	DDR2	84ball		N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	N/A		N/A		
	M15T1G1664A-DEBG2C	1G bit	64M×16	DDR3	96ball		,	14/1	N/A	14/24	,	T/A	N/A		N/A	N/A		N/A		
	M15T1G1664A-DEBG2CS	1G bit	64M×16	DDR3	96ball			T/A				-,,-	N/A		N/A	N/A		N/A		
ESMT	M15T2G16128A-DEBG2L	2G bit	128M×16	DDR3	96ball			.,		1	T/A	T/A		,	,	N/A				
	M15T2G16128A-DEBG2LS	2G bit	128M×16	DDR3	96ball						.,	-,,-				T/A	T/A		T/A	
	M15T4G16256A-DEBG2L	4G bit	256M×16	DDR3	96ball								T/A		T/A	T/A	.,		1,7.5	
	M15F4G16256A-DEBG2L	4G bit	256M×16	DDR3	96ball						T/A	T/A	T/A		T/A	T/A				
	MIST TOTOLSON BEBULE	10 510	230111120	0010	Joban						-,,,	.,,,,	.,,,		-,,,	-,,,				
	P3R1GE4CFF-G8E	1G bit	64M×16	DDR2	84ball	√	N/A	N/A	N/A	N/A	N/A		N/A		N/A	N/A		N/A		
	P3R1GE3FGF-G8E	1G bit	128M×8	DDR2	84ball	√	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A		N/A		256M16在RK3066,
	P2P2GF4ALF-GGN	2G bit	128M×16	DDR3	96ball						T/A	T/A				<b>I</b>				RK31xx平台上需要添加
MIRA	P2P2GF4ALF-GJS	2G bit	128M×16	DDR3	96ball		1	1		<u> </u>	1	T/A	T/A		T/A	T/A				定频相关补丁。并且对
	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	256M×16	DDR3	96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			N/A		高,需要严格遵照我们
	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	的布板要求布板。
	P3P4GF4DMF-GJS	4G bit	256M×16	DDR3	96ball	+						-	T/A	-	T/A	T/A	-		-	
						+		1		1	+					1				
	I.						1	1	1		1	1	1		1		1	1	L	



		1				RK290x		RK2926/RK3026			RK3368/RK32	RV1108/				RK3326/		RK339	9PRO	
Manufacturer	Part Number	Density	Organization	Туре	package	RK2918	28A/RK3128/ PX3-SE	RK3036/RK30366 /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
	SCB15H1G160CF-13K	1G bit	64M×16	DDR3	96ball							T/A	N/A	N/A	N/A	N/A		N/A		
	SCN13H2G160AF-13K	2G bit	128M×16	DDR3	96ball		T/A													
	SCB13H2G160AF-11M	2G bit	128M×16	DDR3L	96ball						T/A	T/A								
UniIC	SCB13H4G160AF-11M	4G bit	256M×16	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	256M×16	DDR3	96ball		T/A	T/A		T/A	T/A	T/A								
	SCB13H8G162BF-11M	8G bit	512M×16	DDR3L	96ball								T/A		T/A	T/A				
	HXB18T1G160AF-25D	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		256M16在RK3
	HXB18T2G160AF-25D	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		RK31xx平台上行
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。
Sesemicon	HXB15H2G160CF-13K	2G bit	128M×16	DDR3	96ball		T/A													参考层完整性
	HXB15H4G800BF-15H	4G bit	512M×8	DDR3	78ball	N/T [1]	T/A	N/A	T/A [1]	T/A										高,需要严格进
	HXB15H4G160BF-15H	4G bit	256M×16	DDR3	96ball	T/A			T/A	T/A										的布板要求
ADATA	3CCD-1211A EL1250V	2G bit	256M×8	DDR3	78ball	N/A	T/A	N/A	T/A	T/A										使用Elpida品 一般。PCB不允
ADATA	D2ND-1211A EL1345V	4G bit	256M×16	DDR3	96ball		T/A	T/A	T/A	T/A										一版。PUB不允 考层有割断的玩
	D2ND-1211A NA1518V	4G bit	256M×16	DDR3L	96ball		T/A	T/A	T/A	T/A										与运行 剖断 的。
	AM43O2G08AFP-150C	2G bit	256M×8	DDR3	78ball	N/A	T/A	N/A	T/A	T/A										使用Elpida品
ANOR	AM43O4G08AFP-150C	4G bit	512M×8	DDR3	78ball	IV/A	T/A	N/A	1/6	1/4										一般。PCB不允
	AW43Q4G08AFF-130C	40 Dit	312W/×8	DDK3	760411		1/A	N/A												层有割断的玩
	A3R12E40DBF-AH	512M bit	32M×16	DDR2	84ball		N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	N/A		N/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	
Zentel	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	
	A3T2GF40BBF-GM	2G bit	128M×16	DDR3	96ball	,	T/A	.474	.474	,.	,,,,	//-	, 14	,,,,,	, 14	,		, 14	, 14	1
	A3T4GF40ABF-GM	4G bit	256M×16	DDR3	96ball		-//						T/A		T/A	T/A				
	V59C1G01168QBASXJ25	1G bit	64M×16	DDR2	84ball	<b>V</b>	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A		N/A		
ProMOS	V73CAG01808RA JI9	1G bit	128M×8	DDR3	78ball	·		,/	.474	1.47	,,,,		N/A	N/A	N/A	N/A		N/A		
	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		



Manufacturer	Part Number	Density	Organization	Туре	package	RK290x RK2918		RK2926/RK3026/ RK3036/RK3036G /RK3126	RK3066/RK3066A/PX2 RK3168/RK3188/PX3	RK3288	RK3368/RK32 28A/RK3228B /RK3229/PX5	RV1108/ RK3308		RK3399	RK3328	RK3326/ PX30	RK1808	RK33	99PRO NPU_RA . M	与RK兼容情况
SMART	S4B2G0846C-HYH9	2G bit	256M×8	DDR3	78ball				T/A	T/A										巴西颗粒,国内用的不
	S4B2G0846D-HYK0	2G bit	256M×8	DDR3	78ball				T/A	T/A										8
										-										
	PME810816CBR-G8DN	1G bit	64M×16	DDR2	84hall		N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	N/A		N/A		
	PMF510816ABR-G8DN	1G bit	64M×16	DDR3	96ball	<b>√</b>	IV/A	14/75	19/5	14/ A	IV/A	1//	N/A	N/A	N/A	N/A		N/A		
	PMF511816ABR-G8DN	2G bit	128M×16	DDR3	96ball	· ·							IV/A	N/A	N/A	IN/A		IN/A		
πΡΜ	PMF511816DBR-KADN	2G bit	128M×16	DDR3	96ball				T/A	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										
	PMF412816FBR-KADN	4G bit	256M×16	DDR3L	96ball		-,	.,	.,	T/A										
MT.MOSET	ED3E25608CE-P9	2G bit	256M×8	DDR3	78ball	T/A	T/A	N/A	T/A	T/A										
	VP5TQ1G0835-F9	1G bit	128M×8	DDR3	78ball	√							N/A	N/A	N/A	N/A		N/A		
WINS	VP5TQ2G1635FFP-F9	2G bit	128M×16	DDR3	96ball	√	N/A	N/A												
	VP5TQ2G0835L-F9	2G bit	256M×8	DDR3	78ball	<b>V</b>											-			
		+		+	+					+	1		1	<del>                                     </del>	1	-	<del>                                     </del>	+		
	D5128EETBPGGBU	4G bit	512M×8	DDR3	78ball		T/A	T/A	T/A	T/A					_					
							[6]	T/A [6]	[6]	[6]	T/A [6]	T/A [6]	1							
	D2516EC4BXGGB	4G bit	256M×16	DDR3L	96ball	1	T/A [O]	T/A [U]	T/A [6]	T/A	T/A [U]	T/A	,	1	1	1	1			256M16在RK3066,
	D2516ECMDXGJD	4G bit	256M×16	DDR3L	96ball		-,	.,	.,	ļ			T/A		T/A	T/A	T/A		T/A	RK31xx平台上需要添加
	D2516ECMDXGJD D2516JC4BXGJD	4G bit	256M×16	DDR3	96ball					T/A			1/4		1/A	1/A	1/A		1/A	定频相关补丁。并且对
Kingston	B5116ECMDXGJD	4G bit	250W×16 512M×16	DDR3L	96ball	_				T/A			_	T/A		1		T/A		参考层完整性要求较
	D2532LA6MLGJA	8G bit	256M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A	1/A		N/A	T/A	1/A	T/A	T/A	T/A	1/A	T/A	高,需要严格遵照我们
	KB23AADL3E08G		256M×32 512M×16	LPDDR3	178ball	N/A N/A	N/A N/A	N/A N/A	N/A N/A	T/A		N/A N/A	1/A		1/A	1/A	1/A		I/A	的布板要求布板。
	D2516PC1CDGPLR	8G bit 8G bit	256M×32	LPDDR3	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	T/A	N/A	N/A	N/A	T/A	N/A	STOREST STORES
	Q5116PH1MDGPAR	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	
	Q32101112MDG17M					.,,				.,,			,	,		,	.,,	.,,		
ISSI	IS43TR16640B-125KBL	1G bit	64M×16	DDR3	96ball							T/A	N/A	N/A	N/A	N/A		N/A		
	IS43TR1612BC-125KBL	2G bit	128M×16	DDR3	96ball						T/A	T/A								
	UDADOS GASTEROSS	1013	501.15	DDDD	84ball															
	H2A301G1656BC6C	1G bit	64M×16	DDR2			N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A N/A	N/A N/A	N/A N/A		N/A N/A		
axeme	H2A401G1666BFBC H2A402G1666BFBC	1G bit 2G bit	64M×16 128M×16	DDR3 DDR3	96ball 96ball		T/A	T/A				T/A	N/A	N/A	N/A	N/A		N/A		
uxeme	H2A404G1666CFMC	4G bit	256M×16	DDR3	96ball		- 1/5	1/4					T/A		T/A	T/A				
	H2A404G0866CD8C	4G bit	512M×8	DDR3	78ball				T/A	T/A			.,		- ','	-,,,,				
									,											
ISDT	IL2BR20E8H	16Gb/2Channel	256M×32×2Ch	LPDDR2	220ball	N/A		N/A		T/A			N/A	N/A	N/A	N/A		N/A		
	W9751G6KB-25	512M bit	32M×16	DDP2	84ball		N/A	N/A	N/A	NI/A	N/A	T/A	NI/A	NI/A	NI/A	NI/A		NI/A		
	W971GG6SB-18	1G bit	64M×16	DDR2	84ball		N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	N/A		N/A		
Winbond	W631GG6KB-12	1G bit	64M×16	DDR3	96ball		197	,	11/1	1.47.	N/A T/A	T/A	N/A N/A	N/A	N/A	N/A		N/A		
windona	W631GG6MB-12	1G bit	64M×16	DDR3	96ball							T/A	N/A	N/A	N/A	N/A		N/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	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	
										-										
Goldkey	GH4061600HRL-1833	4G bit	256M×16	DDR3L	96ball								T/A		T/A	T/A				
Golukey	GI I-001000HKL-1033	40 DIL	Z30W1×10	DDIGIL	Judii								1/4		1/A	1/A				
	BW52L512M32D2PF	16G bit	512M×32	LPDDR3	178ball	N/A	N/A	N/A	N/A		T/A	N/A					T/A		T/A	
BIWIN	BWMD4X32H2A-08Gb	8G bit	256M×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	
	BWMD4X32H2A-16Gb□	16G bit	512M×32	LPDDR4	200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	T/A	N/A	
										1										
	FC0C1 40002	2C hit	1201416	DDDD	OCF-III			1		_										
	F60C1A0002 NCLD3B2256M32	2G bit	128M×16 256M×32	I PDDR3	96ball 178ball	N/A	N/A	N/A	N/A	T/A		N/A		T/A		T/A		T/A		
FORESEE	NCLD3B2256M32 NCLD4C1MA256M32	8G bit/ 2cs 8G bit	256M×32 256M×32	LPDDR3 LPDDR4	1/8ball 200ball	N/A N/A	N/A N/A	N/A N/A	N/A	T/A N/A	N/A	N/A N/A	N/A	T/A	NI/A	N/A	N/A	T/A T/A	NI/A	
	NCLD4C1MA256W32 NCLD4C2MA512M32	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	T/A	N/A N/A	N/A	N/A	T/A	N/A	
	NCLDXC1MC512M32	16G bit	512M×32	LPDDR4	200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A		T/A		
-							-				1									
	I5TQ4G63EFR	4G bit	256M×16	DDR3	96ball								T/A		T/A	T/A				
F	13 TQ-4003ETT		256M×32	LPDDR3	178ball	N/A	N/A	N/A N/A	N/A	B		N/A		T/A		\$ · · · ·		T/A		
Essencore	EL38NMAAA1-PBER	8G bit		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	
Essencore	EL38NMAAA1-PBER EL48PMBBB1-S4ER	8G bit 16G bit	512M×32																	
	EL38NMAAA1-PBER EL4BPMBBB1-S4ER	16G bit			366ball	N/Δ	N/A	N/Δ	N/Δ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/Δ	
Essencore Netsol	EL38NMAAA1-PBER		512M×32 512M×64	LPDDR4	366ball	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	
	EL38NMAAA1-PBER EL4BPMBBB1-S4ER	16G bit			366ball	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	
Netsol	EL38NMAAA1-PBER EL4BPMBBB1-S4ER	16G bit			366ball 96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A	N/A	N/A	N/A	N/A	N/A	
	EL38NMAAA1-PBER EL4BPMBBB1-S4ER SSRG2G20CMS-MGCJ	16G bit  32G bit  4G bit  8G bit	512M×64 256M×16 256M×32	LPDDR4  DDR3  LPDDR4	96ball 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		T/A	N/A	
Netsol	EL38NMAAA1-PBER EL48PMBBB1-S4ER  SSRG2G20CMS-MGCJ  TN4G16D3CSEP-EK	16G bit 32G bit	512M×64 256M×16	LPDDR4  DDR3	96ball									T/A				T/A	N/A	
Netsol	EL38NMAAA1-PBER EL4BPMBBB1-54ER  SSRG2G20CMS-MGCJ  TN4G16D3CSEP-EK TM8G32MD4LSA1-14	16G bit  32G bit  4G bit  8G bit	512M×64 256M×16 256M×32	LPDDR4  DDR3  LPDDR4	96ball 200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A T/A	N/A	N/A	N/A	T/A T/A	N/A	
Netsol	EL38MMAAAL-PBER EL48PMB8B1-S4ER  SSRG2G20CMS-MGCJ  TN4G16D3CSEP-EK TM8632MD4L5A1-14 TH16G32MD4L5A1-14	16G bit  32G bit  4G bit 8G bit 16G bit	512M×64 256M×16 256M×32 512M×32	LPDDR4  DDR3 LPDDR4 LPDDR4	96ball 200ball 200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A T/A N/A	N/A	N/A	N/A	T/A T/A N/A	N/A	
Netsol	EL38NMAAAL-PBER EL48PMB8B1-S4R SSRG2G20CMS-MGCJ TN4G16D3CSEP-EK TM8632MD4LSA1-H TH16G32MD4LQM1-H IMD256M16R30HG8GNF-107	16G bit  32G bit  4G bit 8G bit 16G bit	512M×64 256M×16 256M×32 512M×32 256M×16	LPDDR4  DDR3  LPDDR4  LPDDR4  LPDDR4  DDR3	96ball 200ball 200ball 96ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A T/A N/A	N/A	N/A	N/A	T/A T/A N/A	N/A	
Netsol TMTC	EL38MMAAAL-PBER EL48PMB8B1-S4ER  SSRG2G20CMS-MGCJ  TN4G16D3CSEP-EK TM8632MD4L5A1-14 TH16G32MD4L5A1-14	16G bit  32G bit  4G bit 8G bit 16G bit	512M×64 256M×16 256M×32 512M×32	LPDDR4  DDR3 LPDDR4 LPDDR4	96ball 200ball 200ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	T/A T/A N/A	N/A	N/A	N/A	T/A T/A N/A	N/A	