Amlogic DDR Qualified Peripheral List for MBOX *v1.5* *2015/7/31*

Note1: The support list below is regardless of OS/Kernel version unless otherwise stated.

Note2: (xxx MHz) is the actual frequency verifed on Amlogic platform, which dos not mean the frequency limitation unless otherwise.stated.

Manufacturer	Type	Part Number	Features							SoC				Note
			Density	Bus Width	CS per Channel	Speed	Process	Package	Remark	MX/MXL/MXS	S802/S812	S805	S905	
Hynix (现代)	DDR3	H5TQ2G83CFR-H9C	2Gb	x8	x1	1333	3xnm	FBGA78	EOL	√	D/A	-		
	DDR3	H5TQ2G63BFR-H9C	2Gb	x16	x1	1333	44nm	FBGA96	EOL	√	√	-		
	DDR3	H5TQ4G63MFR-H9C	4Gb	x16	x1	1333	3xnm	FBGA96	EOL	√	√	-		
	DDR3	H5TQ4G63MFR-PBC	4Gb	x16	x1	1600	3xnm	FBGA96	EOL	√	√	-		
	DDR3L	H5TC2G83EFR-PBA	2Gb	x8	x1	1600	29nm	FBGA78	EOL	D/A	D/A	√ 1.35V 636MHz)		
	DDR3	H5TQ2G63FFR-H9C	2Gb	x16	x1	1333	29nm	FBGA96		√		D/A		
	DDR3	H5TQ2G63FFR-PBC	2Gb	x16	x1	1600	29nm	FBGA96		D/A	√ (79 MHz)	√ (1.5V 636MHz)		
	DDR3L	H5TC2G63FFR-PBA	2Gb	x16	x1	1600	29nm	FBGA96		√	√ (792MHz)	√ (1.5V 636MHz)		
	DDR3	H5TQ4G83AFR-H9C	4Gb	x8	x1	1333	29nm	FBGA78			D/A	D/A		
	DDR3	H5TQ4G83AFR-PBC	4Gb	x8	x1	1600	29nm			D/A	D/A	√ (1.5V 636MHz)		
	DDR3L	H5TC4G83AFR-PBA	4Gb	x8	x1	1600	29nm	FBGA78		D/A	D/A	√ (1.35V 636MHz)		
	DDR3	H5TQ4G63AFR-PBC	4Gb	x16	x1	1600	29nm	FBGA96		√	√ (792MHz)	√ (636MHz)		
	DDR3L	H5TC4G63AFR-PBA	4Gb	x16	x1	1600	29nm	F GA96		√	D/A	D/A		
	DDR3	H5TQ4G63AFR-TEC	4Gb	x16	x1	2133				√	√ (792MHz)	D/A		
	DDR3L	H5TC4G63CFR-PBA	4Gb	x16	x1	1600	25nm	FBGA96		D/A	√ (1.35V 792MHz)	√ (1.35V 636MHz)		
	DDR3	H5TQ4G63CFR-RDC	4Gb	x16	x1	1866	25nm	FBGA96		D/A	D/A	√ (1.5V 636MHz)		
Elpida (尔比达)	DDR3	EDJ2116DEBG-DJ-F	2G	16	x	1333	-	FBGA96	EOL	√	√	-		
	DDR3	EDJ2108BDBG-DJ-F	Gb	x8	x1	1333	-	FBGA78	EOL	√	D/A	-		
	DDR3L	EDJ2116EEBG-DJ-F	2 b	x16	x1	1333	40nm	FBGA96		√	√	D/A		
	DDR3	EDJ4216EFBG-GN-F	4Gb	x16	x1	1600	30nm	FBGA96		√ (468MHz)	D/A	D/A		
	LPDDR3	EDF8164A3MA-GD-F	8Gb	x64		1600	25nm	FBGA178		D/A	D/A	D/A		
	LPDDR3	EDF8164A1MA-GD-F	8Gb	x64		1600	30nm	FBGA178		D/A	D/A	D/A		
Micron	DDR3	MT41K256M8DA-125:K	2Gb	x8	x1	1600	30nm	FBGA78		√	D/A	D/A		
	DDR3L	MT41K128M16JT-125:K	2Gb	x16	x1	1600	30nm	FBGA96		√ (468MHz)	√ (1.35V 792MHz)	√ (1.35V 636MHz)		
	DDR3L	MT41K128M16JT-107:K	2Gb	x16	x1	1866	30nm	FBGA96				√ (1.35V 636MHz)		
	DDR3	MT41K512M8RH-125:E	4Gb	x8	x1	1600	30nm	FBGA78		√	D/A	D/A		
	DDR3L	MT41K256M16HA-125:E	4Gb	x16	x1	1600	30nm	FBGA96		√ (468MHz)	√ (1.35V 792MHz)	√ (1.35V 636MHz)		

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Note2: (xxx MHz) is the actual frequency verifed on Amlogic platform, which dos not mean the frequency limitation unless otherwise.stated.

Manufacturer	Type	Part Number	Features							SoC				Note
			Density	Bus Width	CS per Channel	Speed	Process	Package	Remark	MX/MXL/MXS	S802/S812	S805	S905	
	DDR3L	MT41K256M16LY-107:N	4Gb	x16	x1	1866	25nm	FBGA96		D/A	√ (1.35V 792MHz)	√ (1.35V 636MHz)	√ (1.5Vz)	
Samsung (三星)	DDR3	K4B2G1646C-HCH9	2Gb	x16	x1	1333	46nm	FBGA96	EOL	√	√	-		
	DDR3	K4B4G1646B-HCK0	4Gb	x16	x1	1600	35nm	FBGA96	EOL	√	√	-		
	DDR3	K4B2G1646Q-BCK0	2Gb	x16	x1	1600	35nm	FBGA96		D/A	√ (792MH)	√ (1.5V 636MHz)		
	DDR3L	K4B4G1646Q-HYK0	4Gb	x16	x1	1600	35nm	FBGA96		√ (468MHz)	(672MHz)	√ (516MHz)		
	DDR3	K4B4G1646D-BCK0	4Gb	x16	x1	1600	25nm	FBGA96		√	√ (792MHz)	D/A		
	DDR3L	K4B4G1646D-BYK0	4Gb	x16	x1	1600	25nm	FBGA96		/A	D/A	√ (1.35V 636MHz)		
	DDR3L	K4B4G1646D-BCMA	4Gb	x16	x1	1866	25nm	FBGA96					√ (1.5V)	
	DDR3	K4W4G1646D-BC11	4Gb	x16	x1	1866	25nm	FBGA96		D/A	√ (1.35V 792MHz)	D/A		
	DDR3	K4B4G1646E-BCMA	4Gb	x16	x1	1866	20nm	FBGA96				√ (1.5V 696MHz)		
	LPDDR3	K4E8E304ED-EGCE	8Gb	x32	x2	1600	25nm	BG 178		N/A	N/A	√ (1.2V 528MHz)		
Nanya	DDR3	NT5CB128M8CN-CG	1Gb	x8	x1	1333	68nm	W GA78	EOL	√	D/A	-		
	DDR3	NT5CB128M16BP-CG	2Gb	x16	x1	133	5 nm	FBGA96	EOL	√	√	-		
	DDR3	NT5CB256M8GN-CG	2Gb	x8	x1	1 33	42nm	FBGA78	EOL	√	D/A	-		
	DDR3	NT5CB256M16BP-DI	4Gb	x16	x	1600	50nm	FBGA96	EOL	√	√	√ (636MHz)		
	DDR3	NT5CB256M8FN-CG	2Gb	x8	1	1333	30nm	FBGA78	EOL	√	D/A	D/A		
	DDR3	NT5CB256M8FN-DI	2Gb	x	x1	1600	30nm	FBGA78	EOL 3Q'15	√	D/A	√ (516MHz)		
	DDR3L	NT5CC256M8FN-DI	2G	x8	x1	1600	30nm	FBGA78	EOL 3Q'15	D/A	D/A	√ (1.35V 516MHz)		
	DDR3	NT5CB128M16FP-DI	2Gb	x16	x1	1600	30nm	FBGA96	EOL 3Q'15	√	√ (792MHz)	D/A		
	DDR3L	NT5CC128M16FP-DI	2Gb	x16	x1	1600	30nm	FBGA96	EOL 3Q'15	D/A	√ (1.35V 792MHz)	D/A		
	DDR3L	NT5CC128M16IP-DI	2Gb	x16	x1	1600	30nm	FBGA96			√ (1.35V 792MHz)	√ (1.35V 636MHz)		
	DDR3L	NT5CC512M8CN-DI	4Gb	x8	x1	1600	30nm	FBGA78	EOL 3Q'15	√	D/A	D/A		
	DDR3	NT5CB256M16CP-DI	4Gb	x16	x1	1600	30nm	FBGA96	EOL 3Q'15	D/A	√ (792MHz)	D/A		
	DDR3L	NT5CC256M16CP-DI	4Gb	x16	x1	1600	30nm	FBGA96	EOL 3Q'15	√	D/A	D/A		
	DDR3	NT5CB256M16DP-FL	4Gb	x16	x1	2133	30nm	FBGA96					√ (1.5V)	

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Manufacturer	Type	Part Number	Features							SoC				Note
			Density	Bus Width	CS per Channel	Speed	Process	Package	Remark	MX/MXL/MXS	S802/S812	S805	S905	
	DDR3L	NT5CC256M16DP-DI	4Gb	x16	x1	1600	30nm	FBGA96		D/A	D/A	D/A		
	DDR3	NT5CB256M16DP-EK	4Gb	x16	x1	1866	30nm	FBGA96			√ (1.5V 792MHz)	D/A	√ (1.5V)	
Spectek	DDR3	PRM256M16V80AG8GPF-15E (PEB16-15E)	4Gb	x16	x1	1333		FBGA96		√	√ (792MHz)	√ (636MHz)		
	DDR3	PRN256M8V80AG8RHF-15E (PE947-15E)	2Gb	x8	x1	1333		FBGA78		D/A	D/A			
Mira/Mezza (力晶)	DDR3	Z3P2GF3CKF-GDJ	2Gb	x8	x1	1333	40nm	FBGA78		√	D A	√ (1.35V 636MHz)		
	DDR3L	P3P4GF4BLF-GGN	4Gb	x16	x1	1600		FBGA96		√	√ (67 MHz*)	D/A		* maximum limitation
	DDR3	P3P4GF3BLF-GGN	4Gb	x8	x1					√	D/A	-		
SCS (华芯)	DDR3	HXB15H4G160BF-15H	4Gb	x16	x1	1333		FBGA96	EOL	D A	D/A			
	DDR3	HXB15H2G800BF-15H	2Gb	x8	x1	1333		FBGA78				√ (1.5V 636MHz)		
	DDR3	HXB15H2G160CF-13K	2Gb	x16	x1	1600	30nm	FBGA96		D/A	D/A	D/A		
	DDR3	HXB15H4G160BF-13K	4Gb	x16	x1	1600		FBGA96		√ (468MHz)	D/A			
	DDR3	HXB15H4G160AF-13K	4Gb	x16	x1	1600						√ (1.5V 636MHz)		
	DDR3L	HXB13H4G160BF(L)-13K	4Gb	x16	x1	1600		FBGA96		√	D/A	D/A		
GT (创芯)	DDR3	GT8UB128M8DN-BG	1Gb	x8	x1	133	4 nm	FBGA78B		√	D/A			
	DDR3	GT8UB256M8BN-BG	2Gb	x8	x1	1333	2nm	FBGA78B		√	D/A	-		
	DDR3	GT8UB128M16BP-BG	2Gb	x16	x	1333	42nm	FBGA96B	EOL	√	√	-		
	DDR3	GT8UB128M16BP-BH	2Gb	X16	x1	1600	42nm	FBGA96B	EOL	√	√			
	DDR3	GT8UB256M8EN-BH	2 b	8	x	1600	30nm	FBGA78B		√	D/A			
	DDR3	GT8UB512M8EN-BG	Gb	x8	x1	1333	30nm	FBGA78B		√	D/A			
	DDR3L	GT8UC512M8EN-BH	4G	x8	x1	1600	30nm	FBGA78B			D/A	√ (516MHz)		
	DDR3	GT8UB256M16BP-BG	4Gb	x16	x1	1333	30nm	FBGA96B		√	√	√ (516MHz)		
	DDR3	GT8UB256M16BP-BH	4Gb	x16	x1	1600	30nm	FBGA96B		√	√			
ADATA (威刚)	DDR3	3CCD-1211A	2Gb	x8	x1	1600				√	D/A	D/A		
	DDR3L	DWND-1211A	4Gb	x8	x1	1600				√	D/A	D/A		
	DDR3L	D2ND-1211AEL	4Gb	x16	x1	1600				D/A	√ (1.5V, 792MHz)	√ (1.5V 636MHz)		
Zentel (力积)	DDR3	A3T4GF40ABF-GM	4Gb	x16	x1	1600	38nm			D/A	D/A	√ (1.35V 636MHz)		
Kingston	DDR3L	D5128EETBPGGBU	4Gb	x8	x1	1600		FBGA78		D/A	D/A	√ (1.35V 636MHz)		

Amlogic DDR Qualified Peripheral List for MBOX *v1.5* *2015/7/31*

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Manufacturer	Type	Part Number	Features							SoC				Note
			Density	Bus Width	CS per Channel	Speed	Process	Package	Remark	MX/MXL/MXS	S802/S812	S805	S905	
Kingston	DDR3L	D2516EC4BXGGB	4Gb	x16	x1	1600		FBGA96		√	√ (672MHz*)	D/A		* maximum limitation
Promos (茂德)	DDR3	V73CAG04168RAJJ11	4Gb	x16	x1	1600				D/A	D/A	D/A		
	DDR3L	V73CBG04168RAJJ11	4Gb	x16	x1	1600				D/A	D/A	D/A		
	DDR3	V73CAG08328RCPJ11	8Gb	x32		1600				D/A	D/A	D/A		
	DDR3	V73CAG08328RCPI9	8Gb	x32		1333				D/A	D A	√ (636MHz)		
Etron	DDR3	EM6GD08EWUC-12H	2Gb	x8	x1	1600	30nm	FBGA78		D/A	D/A	√ (1.5V 636MHz)		
	DDR3	EM6GD16EWXC-12H	2Gb	x16	x1	1600	30nm			A	D/A	√ (1.5V 636MHz)		
	DDR3	EM6GE16EWXC-12H	4Gb	x16	x1	1600	30nm	FBGA96		D A	D/A	√ (1.5V 636MHz)		
Axeme (华聆)	DDR3	H2A402G1666AFBC	2Gb	x16	x1	1600		FBGA96		D/A	D/A	√ (1.5V 636MHz)		
	DDR3	H2A404G1666AFFC	4Gb	x16	x1	1600		FBGA96		D/A	D/A	√ (1.5V 636MHz)		
	DDR3	H2A404G1666EFCC	4Gb	x16	x1	1600		FBGA96		D/A	D/A	√ (1.5V 636MHz)		
ESMT	DDR3	M15F2G16128A-BDBG2F	2Gb	x16	x1	1600	30nm	FBGA96		D/A	D/A	D/A		
GEIL	DDR3	IGL1L128M168BA15H+KT	2Gb	x16	x1					√	√	D/A		
Innoways	DDR3	IN5CB256M8BN-CG	2Gb	x8	x1					√	D/A			
Winbond(华邦)	DDR3	W632GG6KB-12	2Gb	x16	x	13 3		FBGA96		N/A	N/A			autoreboot fail only.can be solved on board with PMU.

Amlogic DDR Qualified Peripheral List for MBOX *v1.5* *2015/7/31*

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Manufacturer	Type	Part Number	Features							SoC				Note
			Density	Bus Width	CS per Channel	Speed	Process	Package	Remark	MX/MXL/MXS	S802/S812	S805	S905	

History		
Date	**Revision**	**Description**
2015/7/31	v1.5	Add HXB15H4G160AF-13K
2015/6/30	v1.4	Add MT41K128M16JT-107:K,
2015/6/8	v1.3	Add S905 temporary support info, MT41K256M16LY-107, NT5CB256 6D -F , N 5CB256M16DP-EK
2015/5/20	v1.2	Add K4B4G1646E-BCMA, NT5CC128M16IP-DI, NT5CB256M16DP-EK
2015/1/19	v1.1	Add EM6GD16EWXC-12H, HXB15H2G160CF-13K, MT41K256M16LY-1 7:N, H5TQ4G63CFR-RDC, H5TC4G63CFR-PBA, H2A404G1666AFFC, H2A402G1666AFBC, H2A404G1666EFCC, M15F2G16128A-BDBG2F
2014/12/19	v1.0	Add K4E8E304ED-EGCE
2014/12/5	v0.9	Add EM6GE16EWXC-12H, P3P4GF4BLF-GGN D2516EC4BXGGB, NT5CC256M16DP-DI, A3T4GF40ABF-GM
2014/9/18	v0.8	Add H5TC4G83AFR-PBA, PRN256M8V 0AG8RHF-15E, NT5CC256M8FN-DI, H5TC2G83EFR-PBA, D5128EETBPGGBU, H5TQ4G83AFR-PBC, EM6GD08EWUC-12H
2014/8/7	v0.7	Add K4W4G1646D-B 11
2014/7/18	v0.6	Add D2ND-1211AEL N 5CB256M16CP-DI, K4B4G1646D-BYK0
2014/6/13	v0.5	Add D2516EC4BXGGB, NT5CB128M16FP-DI，MT41K256M16HA-125:E, NT5CC128M16FP-DI, H5TQ2G63FFR-PBC, K4B2G1646Q-BCK0, S805 support list
2014/5/4	v0.4	Add E J42 6EFBG-GN-F, HXB15H4G160BF-13K, HXB13H4G160BF(L)-13K, K4B4G1646Q-HYK0, H5TC4G63AFR-PBA, NT5CC256M16CP-DI, H5TC2G63FFR-PBA, H5 Q4 3AFR-TEC, PRM256M16V80AG8GPF-15E
2014/3/17	v0.3	I itial sion release

Amlogic NAND Qualified Peripheral List for MBOX *v1.1* *2015/6/30*

Note: The support list below is regardless of OS/Kernel version unless otherwise stated.

Manufacturer	Type	Part Number	Features						SoC				Note
			Density	CE	ECC	Process	Package	Remark	MX/MXL/MXS	S802/S812	S805	S905	
Hynix (现代)	MLC	H27UBG8T2A	4GB	1	24bit /1024B	32nm	TSOP48	EOL	√	√	-		
	MLC	H27UAG8T2B	2GB	1	24bit /1024B	26nm	TSOP48	EOL	√	√	-		
	MLC	H27UAG8T2A	2GB	1	24bit /1024B	41nm	TSOP48	EOL	√	√	-		
	MLC	H27UBG8T2B	4GB	1	24bit/1024B	26nm	TSOP48	Note 1, EOL	√	√	-		
	MLC	H27UCG8T2M	8GB	1	24bit/1024B	26nm	VLGA	Note 1, 2,EOL	√	√	-		
	MLC	H27UBG8T2C	4GB	1	40bit/1024B	20nm	TSOP48	Note 1	√	√	√		
	MLC	H27UCG8T2A	8GB	1	40bit/1024B	20nm	TSOP48	Note 1	√	√	√		
	MLC	H27UCG8T2BYR	8GB	1	40bit/1024Byte	20nm	TSOP48	Note 1	√		√		
	MLC	H27UCG8T2BTR	8GB	1	40bit/1024B	20nm	TSOP48	Note 1	N/A	N/A	N/A		
	MLC	H27UBG8T2DTR	4GB	1	50bit /1024B	16nm	TSOP48	Patch-PD105252	D/A	√	√		
	MLC	H27UCG8T2ETR	8GB	1	MXx:40bit/1024B M80x:50bit/1024B	16nm	TSOP48	Note 1	D/	√	√		
	SLC	H27U1G8F2CTR-BC	128MB		8bit/512B		TSOP48		D/A	√	√		
	Note 1: Recommendation: 1)Read-retry, which should disable multi-plane mode; 2)Randomizer, which should e able ran_mode; 3)En-SLC, Still not support with MX romboot code, and should add SPI NOR flash for Uboot Note 2: Test Result: Already mass production, and chip package type: VLGA, not TSOP;												
Micron (美光)	MLC	MT29F32G08CBABA	4GB	1	12bit/540B	34nm	TSOP48	OL	√	√	-		
	MLC	MT29F32G08MAA	4GB	1	12bit/540B	34nm	TSOP48	E L	√	√	-		
	MLC	MT29F128G08[T/U]AA	16GB	1	12bit/540B	34nm	T OP4	EOL	√	√	-		
	MLC	MT29F256G08MAAA	32GB	2	24bit /1024B	34n	TSO 48	EOL	√	√	-		
	MLC	MT29F32G08CBACA	4GB	1	24bit/1080B	2 nm	TSOP48		√	√	√		
	MLC	MT29F64G08CBAAA	8GB	1	24bit /1024B	25nm	TSOP48	EOL	√	√	-		
	MLC	MT29F128G08C[E/F]AAA	16GB	2	24bit /1 24B	25nm	TSOP48	EOL	√	√	-		
	MLC	MT29F32G08CBADA	4GB	1	0bi 1024B	20nm	TSOP48	Note 1	√	√	√		
	MLC	MT29F64G08CBABA	8GB		40bit/1024B	20nm	TSOP48	Note 1	√	√	√	√	
	MLC	MT29F128G08CFABA	16GB	2	40bit/1024B	20nm	TSOP48	Note 1	√	√	√		
	SLC	MT29F1G08ABAEAWPE	128M	1	8bit/512B		TSOP48		√	√	√		
	Note 1: Recommendation: Read-retry, which should disable multi-plane mode;												
	MLC	TC58NVG4D2ETA00	2GB	1	24bit /1024B	43nm	TSOP48	EOL	√	√	-		
	MLC	TH58NVG5D2ETA20	4GB	2	24bit /1024B	43nm	TSOP48	EOL	√	√	-		
	MLC	TC58NVG5D2FTA00	4GB	1	24bit /1024B	32nm	TSOP48	EOL	√	√	-		
	MLC	TH58NVG7D2FTA20	8GB	2	24bit /1024B	32nm	TSOP48	EOL	√	√	-		
	MLC	TC58NVG6D2FTA00	8GB	1	24bit /1024B	32nm	TSOP48	EOL	√	√	-		
	MLC	TC58NVG5D2HTA00	4GB	1	40bit/1024B	24nm	TSOP48	Note 1, EOL	√	√	-		
	MLC	TC58NVG6D2GTA00	8GB	1	40bit /1024B	24nm	TSOP48	Note 1, EOL	√	√	√		
	MLC	TC58NVG6DCJTA00	8GB	1	40bit /1024B	19nm	TSOP48	Note 1, EOL	√	√	√		

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