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eMMC/tSD/fSD Support List

V1.15

2016/2/29

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• **History**

Version	Date	Section/ Page	Author	Changes compared to previous issue
V1.10	2015/5/23	All	WJQ	1. Release for A64.
v1.11	2015/6/29	All	WJQ	1. Update support list for A23, A31/A31s, A33, A80, A83T, H8, H3, A64.
v1.12	2015/7/25	All	WJQ	1. Update support list for A20.
v1.13	2015/10/14	All	WJQ	1. Update KLMCG8GEND-B031, KLM8G1GEND-B031,KLMCG8WEBD-B031,THGBMFG6C1LBAIL status on A23,A31/A31s, A33, A80, A83T, H8, H3, A64. Support NCEFAT28-08G, REMKDM316GDBB, REMKDM308GSBB on A20, A23,A31/A31s, A33, A80, A83T, H8, H3, A64. 2. Update SDIN9DS2-32G,SDIN9DS2-16G status on A64. Support SDINADF4-32G-L on A64. 3. Support REMSAT416GDBB on A20, A23,A31/A31s, A33, A80, A83T, A64.
v1.14	2016/1/17	All	WJQ	1. Support KLM4G1FEPD-B031, H26T4300THPR, H26T5500THPR, H26T65001EMR, 40410081B1B1W00, 40410161B1B1W01, GD9E8MUYNM-MA00, MTFC8GAKAJCN-1WMT, on A23, A31/A31s, A33, A80, A83T, H8, H3, A64. 2. Support NCEMBSF9-32GB, NCEMBSF9-32GB on A23, A33, A80, A83T, H8, H3, A64. Support REMSAT408GSBB on A23, A33, A83T, A64. Support REMSAT416GDBB on H8, H3. 3. Support 40410081B1B1W00, 40410161B1B1W01, GD9E8MUYNM-MA00, MTFC8GAKAJCN-1WMT on A20.
v1.15	2016/2/19	All	WJQ	1. Support KLM8G1GEND-B031 on V40 and A20E.

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• Note Introduction

Note	Description
D/S	Datasheet Support but no sample test
S/T	Support and sample test
√	Support and mass produce
X	Not support

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• **Attention**

IC	SD/eMMC Version	SDK Version	eMMC_patch
H3	V1.01	homlet4.4.2-h3-v1.0rc2	NO
H8	V1.00	H8 V1.0	NO
A83	V1.01	A83-android4.4.4-v0.9rc1	NO
A80	V1.01	A80-v1.0-onda-rc3	NO
A23	V1.10	A23-Android4.2-V2.0	A23_Android4.2_V2.0_Android4.4_V1.0&V2.0_emmc_patch_20140525
		A23-Android4.4-V1.0	
		A23-Android4.4-V2.0	
A31(S)	V1.60	A31(S)-Android4.4	A31(S)_Android4.4_V4.4&V4.5&V4.6_nand2.0&emmc_patch_20140707.tar.gz
		A31(S)-Android4.2	A31(S)_Android4.2_V3.0&V3.2&V3.3_nand2.0&emmc_patch_20140625.tar.gz
A33	V1.01	A33-Android4.4.2-V1.0	NO
A20	V1.60	A20-Homlet-Android4.2.2-SDK V2.1rc3	A20_homlet-sugar42-v2.1_update_mmc_driver_2015-10-10.rar
A64	V1.01	exdroid-6.0.1_r3-a64-v2.0rc2	NO

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• Support List

Vendor	Capacity (B)	Part Number	eMMC /SD	Cell&Process	Pkg Size (mm)	A80 V1.01	H8 V1.01	H3 V1.01	Remark
Samsung	8G	KLM8G1WE4A-A001	v4.41		12*16-BGA169	S/T	S/T	S/T	
	16G	KLMAG2WE4A-A001	v4.41		12*16-BGA169	S/T	S/T	S/T	
	4G	KLM4G1FE3B-B001	v4.41		11.5*13-BGA153	S/T	S/T		
	4G	KLM4G1YEMD-B031	v5.0	TLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	KLM8G1WEMB-B031	v5.0	TLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	KLMAG2WEMB-B031	v5.0	TLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	KLMBG4WEBC-B031	v5.0	TLC/19nm	11.5*13-BGA153	S/T	S/T		
	16G	KLMAG2GEAC-B031	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	KLM8G1GEAC-B031	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	4G	KLM4G2DEHE-B101	v5.0		11.5*13-BGA153		D/S	D/S	
	4G	KLM4G1FEAC-B031	v5.0	MLC/19nm	11*10-BGA153	S/T	S/T	S/T	
	32G	KLMBG4GEAC-B031	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	KLMBG4GE2A-A001	V4.5	MLC	12*16-BGA169	S/T	S/T	S/T	
	16G	KLMAG2GEND-B031	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	KLMBG4GEND-B031	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	KLM8G1WEPD-B031	v5.0	TLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	KLMAG2WEPD-B031	v5.0	TLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	KLMBG4WEBD-B031	v5.0	TLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	64G	KLMCG8GEND-B031	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	KLMAG2GEAC-B001	v5.0		11.5*13-BGA153		S/T		
	4G	KLM4G1FEPD-B031	v5.0		11*10*0.8-FBGA153		S/T		
	8G	KLM8G1GEND-B031	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	64G	KLMCG8WEBD-B031	v5.0	TLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	4G	KLM4G1FEPD-B031	v5.0	MLC/16nm	11*10-BGA153	S/T	S/T	S/T	
Sandisk	8G	SDIN7DP2-8G	v4.5		11.5*13-BGA153	S/T	S/T	S/T	
	16G	SDIN7DU2-16G	v4.41		11.5*13-BGA153	S/T	S/T	S/T	
	4G	SDIN7DP2-4G	v4.5		11.5*13-BGA153	S/T	S/T	S/T	
	8G	SDIN8DE1-8G	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	SDIN8DE2-8G	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	SDIN8DR1-8G	v4.51	TLC/1Ynm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	SDIN8DR1-16G	v4.51	TLC/1Ynm	11.5*13-BGA153	S/T	S/T	S/T	
	4G	SDIN8DE2-4G	v4.51	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	SDIN7DP4-16G	V4.51	MLC	11.5*13-BGA153	D/S	D/S	D/S	
	16G	SDIN8DE4-16G	v4.51	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	SDIN8DE2-16G	v4.51	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	SDIN8DE4-32G	v4.51	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	SDIN9DW4-16G	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	SDIN9DW4-32G	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	

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Vendor	Capacity (B)	Part Number	eMMC /SD	Cell&Process	Pkg Size (mm)	A80 V1.01	H8 V1.01	H3 V1.01	Remark
	32G	SDIN9DS2-32G	v5.0	TLC/1Ynm	11.5*13-BGA153		X	X	IO电压不支持3.3V
	16G	**SDIN9DS2-16G**	v5.0	TLC/1Ynm	11.5*13-BGA153		X	X	IO电压不支持3.3V
	32G	**SDINADF4-32G-L**	v5.1	TLC/1Ynm	11.5*13-BGA153		X	X	IO电压不支持3.3V
Micron	4G	3EA28-JW878 (MTFC4GLWAM-WT)	v4.5		11.5*13-BGA153	S/T	S/T	S/T	
	8G	3CA28-JW879 (MTFC8GLWAM-WT)	v4.5		11.5*13-BGA153	S/T	S/T	S/T	
	4G	1UA18-JW729 (MTFC4GMTEA-WT)	v4.41		11.5*13-BGA153	S/T	S/T	S/T	
	8G	2GA28-JW686 (MTFC8GLSEA-IT)	v4.41		11.5*13-BGA153	S/T	S/T	S/T	
	8G	3ZA28-JWA48 (MTFC8GACAAEA-WT)	v4.51	MLC	11.5*13-BGA153	S/T	S/T	S/T	
	4G	3ZA28-JWA49 (MTFC4GACAAEA-WT)	v4.51	MLC	11.5*13-BGA153	S/T	S/T	S/T	
	8G	4MA18-JW962 (MTFC8GLCDM-1M WT)	V4.51		4MA18-JW962		S/T	S/T	
	8G	5QA27-JY995 (MTFC8GAKAJCN-1WMT)	v5.0		(MTFC8GLCDM-1M WT)	D/S	D/S	D/S	
Toshiba	4G	THGBM5G5A1JBAIR	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	THGBM5G6A2JBAIR	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	THGBMAG7A2JBAIR	v4.5	19nm	11.5*13-BGA153	S/T	S/T	S/T	
	4G	THGBMAG5A1JBAIR	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	THGBMBG7D4KBAIR	v5.0	A19nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	THGBMBG8D4KBAIR	v5.0	MLC/A19nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	THGBMBG6D1KBAIL	v5.0	MLC/A19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	THGBMBG7D2KBAIL	v5.0	MLC/A19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	THGBM5G7A2JBAIR	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	THGBMFG7C1LBAIL	v5.0	MLC/15nm	11.5*13-BGA153	S/T	S/T	S/T	
	4G	THGBMBG5D1KBAIL	v5.0	MLC/A19nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	THGBMFG8C2LBAIL	v5.0	MLC/15nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	THGBMFG6C1LBAIL	v5.0	MLC/15nm	11.5*13-BGA153	S/T	S/T	S/T	
SKhynix	4G	H26M31003GMR	v4.51	MLC/20nm	11.5*13-BGA153	S/T	S/T	S/T	
	8G	H26M42003GMR	v4.51	MLC/20nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	H26M52003EQR	v4.51	MLC/20nm	12*16-BGA169	S/T	S/T	S/T	
	8G	H26M41103HPR	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	H26M54003EMR	v4.5	20nm	11.5*13-FBGA153			S/T	
	16G	H26M52103FMR	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	4G	H26M31001HPR	v4.5	MLC/16nm	11.5*13-BGA153				
	32G	H26M64103EMR	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	

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Vendor	Capacity (B)	Part Number	eMMC /SD	Cell&Process	Pkg Size (mm)	A80 V1.01	H8 V1.01	H3 V1.01	Remark
	8G	H26M41103HPRL	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	8	H26T43001HPR	v5.0	TLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	16	H26T55001FPR	v5.0	TLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	32	H26T65001EMR	v5.0	TLC/16nm	11.5*13-BGA153	D/S	D/S	D/S	
Kingston	4G	KE44B26BN	v4.41		12*16-BGA169	S/T	S/T		
	8G	KE4CV3H5A	v4.41		11.5*13-BGA153	S/T	S/T	S/T	
	16G	KE4CV4H5A	v4.41		11.5*13-BGA153	S/T	S/T		
	8G	KE4CN3K6A	v4.5		12*16-BGA169	S/T	S/T	S/T	
	4G	KE4CN2H5A	v4.5		11.5*13-BGA153	S/T	S/T		
	16G	KE4CN4K6A	v4.5		12*16-BGA169	S/T	S/T	S/T	
	16G	EMMC16G-V100	v5.0		11.5*13-BGA153		S/T		
	8G	EMMC08G-V100	v5.0		11.5*13-BGA153		S/T		
	8G	EMMC08G-S100	v5.0		11.5*13-BGA153				
FORESEE	4G	NCTSTS86-04G	SD 2.0	TLC/21nm	12*20-TSOP48	S/T	S/T	S/T	tSD
	8G	NCTSTS76-08G	SD 2.0	TLC/21nm	12*20-TSOP48	S/T	S/T	S/T	tSD
	8G	NCEFES76-08G	v4.41	TLC/21nm	11.5*13.5-BGA153	S/T	S/T	S/T	注1
	16G	NCEFES76-16G	v4.41	TLC/21nm	11.5*13.5-BGA153	S/T	S/T	S/T	注1
	4G	NCFSES86-04G	SD 2.0		11.5*13.5-BGA153	S/T	S/T	S/T	fSD
	8G	NCFSES76-08G	SD 2.0	TLC/21nm	11.5*13.5-BGA153	S/T	S/T	S/T	fSD
	4G	NCEFES76-04G	v4.41		11.5*13.5-BGA153	S/T	S/T	S/T	注1
	32G	NCEFEH58-32G	V4.51	MLC/16nm	11.5*13.5-BGA153	S/T	S/T	S/T	
	8G	NCFSES78-08G	SD 2.0	TLC/21nm	11.5*13.5-BGA153			S/T	
	16G	NCEFEH58-16G	V4.51	MLC/16nm	11.5*13.5-BGA153	S/T	S/T	S/T	
	4G	NCEFES88-04G	v4.51	TLC/21nm	11.5*13.5-BGA153		S/T		
	8G	NCEFES78-08G	v4.51	TLC/21nm	11.5*13.5-BGA153		S/T	S/T	
	8G	NCFSESA8-08G	SD 2.0	TLC/19nm	11.5*13.5-BGA153		S/T	S/T	fSD
	16G	NCEFBS98-16G	v4.5	TLC/19nm	12*16-BGA169	S/T	S/T	S/T	注2
	4G	NCEFEM48-04G	v4.5	MLC/20nm	11.5*13.5-BGA153			S/T	
	16G	NCEMAH59-16G	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	32G	NCEMAH59-32G	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	
	16G	NCEMBS99-16G	v5.0	TLC/19nm	12*16-BGA169	S/T	S/T	S/T	
	32G	NCEMBS99-32G	v5.0	TLC/19nm	12*16-BGA169	S/T	S/T	S/T	
	8G	NCEFAT28-08G	v4.51	TLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	注2
	32G	NCEMBSF9-32G	v4.51	TLC/16nm	12*16-BGA169	S/T	S/T	S/T	
	16G	NCEMBSF9-16G	v4.51	TLC/16nm	12*16-BGA169	S/T	S/T	S/T	
	8G	NCEMASD9-08G	V5.1	TLC/16nm	11.5*13 BGA153		S/T	S/T	
BIWIN	8G	BWAMGTB11A08G	v4.51		12*16-BGA169	S/T	S/T	S/T	
	8G	BWATGSC11C08G	v4.51		12*16-BGA169			S/T	
	16G	BWAMGTB21A16G	v4.51		12*16-BGA169	S/T	S/T	S/T	

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Vendor	Capacity (B)	Part Number	eMMC /SD	Cell&Process	Pkg Size (mm)	A80 V1.01	H8 V1.01	H3 V1.01	Remark
	8G	BWBTA-08G	SD 2.0		11.5*13-BGA153				
	4G	BWBTA-04G	SD 2.0		11.5*13-BGA153				
AcSip	8G	NCMMCS08G	v4.5		12*16-BGA169	S/T	S/T		
AcSip	16G	NCMMCS16G	v4.5		12*16-BGA169	S/T	S/T	S/T	
AVEXIR	16G	AVEC016G-FA6	v4.5		11.5*13-BGA153				
Skymedi	4G	SP18A4G751B-0003	V5.0		11.5*13-BGA153				
Skymedi	8G	SP18A8G752B-0003	V5.0		11.5*13-BGA153				
EUDAR	8G	EMS1ASCBT1FC008	v4.51		11.5*13-BGA153				
EUDAR	16G	EMS1ASCBT2FC016	v4.51		11.5*13-BGA153				
Barun	4G	BEM04M5B50XA-A3CT	v4.51	MLC/20nm	11.5*13-BGA153				
Barun	4G	BEM04S2B60XA-A3CT	v4.51	TLC/19nm	11.5*13-BGA153				
Barun	8G	BEM08S1B60XA-A3CT	v4.51	TLC/19nm	11.5*13-BGA153				
Ramaxel	16G	REMKDM316GDBB	v5.0	MLC	11.5*13-BGA153	S/T	S/T	S/T	
Ramaxel	8G	REMKDM308GSBB	v5.0	MLC	11.5*13-BGA153	S/T	S/T	S/T	
Ramaxel	16G	REMSAT416GDBB	v5.0	TLC/A19nm	11.5*13-BGA153	S/T	S/T	S/T	
Ramaxel	8G	REMSAT408GSBB	v5.0	TLC/A19nm	11.5*13-BGA153				
Spansion	8G	40410081B1B1W00	v4.51	MLC	11.5*13-BGA153	S/T	S/T	S/T	
Spansion	16G	40410161B1B1W01	v4.51	MLC	11.5*13-BGA153	D/S	D/S	D/S	
Gigadevice	8G	GD9E8M00YNM-H0A00	v5.0		11.5*13-BGA153	D/S	D/S	D/S	

注1： A80支持该 eMMC 要求如下：
（1）软件需要额外补丁；
（2）BOOT_SEL[1:0]配置必须为 2'b01或2'b00；
注2：支持该eMMC需要将各环节MMC驱动更新到最新，并修改sys_config.fex让该eMMC工作在SDR模式下。

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