Allwinner Technology
eMMC/tSD/fSD Support List
V1.1
2015-6-12

• History

Version	Date	Section/ Page	Author	Changes compared to previous issue
V1.1	2015/5/23	All	MJQ	1. Release for A64.

• Note Introduction

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

Attention

This support list is based on the specified SD/eMMC driver version which includes sdk version and eMMC patch.

IC	SD/eMMC Version	SDK Version	eMMC_patch								
Н3	V1.01	homlet4.4.2-h3-v1.0rc2	NO								
Н8	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-Android4.2-V2.0									
A23	V1.10	A23-Android4.4-V1.0	A23_Android4.2_V2.0_Android4.4_V1.0&V2.0_emmc_patch_20140525								
		A23-Android4.4-V2.0									
4.24(6)	\/4.60	A31(S)-Android4.4	A31(S)_Android4.4_V4.4&V4.5&V4.6_nand2.0&emmc_patch_20140707.tar.gz								
A31(S)	V1.60	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	NO								
A64	V1.01	exdroid-5.1.1_r1-a64-v1.0rc3	NO NO								

• Support List

	Capacity	5	eMMC	Cell&Process	Pkg Size	A20	A23	A31(S)	A33	A80	A83	R58	R16	A64	
Vendor	(B)	Part Number	/SD		(mm)	V1.60	V1.10	V1.60	V1.01	V1.01	V1.01	V1.01	V1.01	V1.01	Remark
	8G	KLM8G1WE4A-A001	v4.41		12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	KLMAG2WE4A-A001	v4.41		12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	4G	KLM4G1FE3B-B001	v4.41		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	4G	KLM4G1YEMD-B031	v5.0	TLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	KLM8G1WEMB-B031	v5.0	TLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	KLMAG2WEMB-B031	v5.0	TLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	32G	KLMBG4WEBC-B031	v5.0	TLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	KLMAG2GEAC-B031	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	KLM8G1GEAC-B031	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
C	4G	KLM4G1FEAC-B031	v5.0	MLC/19nm	11*10-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
Samsung	32G	KLMBG4GEAC-B031	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	32G	KLMBG4GE2A-A001	V4.5	MLC	12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	KLMAG2GEND-B031	v5.0	MLC/16nm	11.5*13-BGA153				S/T	S/T	S/T	S/T	S/T	S/T	
	32G	KLMBG4GEND-B031	v5.0	MLC/16nm	11.5*13-BGA153	D/S			S/T	S/T	S/T	S/T	S/T	S/T	
	8G	KLM8G1WEPD-B031	v5.0	TLC/16nm	11.5*13-BGA153				S/T	S/T	S/T	S/T	S/T	S/T	
	16G	KLMAG2WEPD-B031	v5.0	TLC/16nm	11.5*13-BGA153				S/T	S/T	S/T	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									D/S	
	8G	KLM8G1GEND-B031	v5.0	MLC/16nm	11.5*13-BGA153									D/S	
	64G	KLMCG8WEBD-B031	v5.0	TLC/16nm	11.5*13-BGA153									D/S	
	8G	SDIN7DP2-8G	v4.5		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	SDIN7DU2-16G	v4.41		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	4G	SDIN7DP2-4G	v4.5		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	SDIN8DE1-8G	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	SDIN8DE2-8G	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	SDIN8DR1-8G	v4.51	TLC/1Ynm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	16G	SDIN8DR1-16G	v4.51	TLC/1Ynm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
6 1: 1	4G	SDIN8DE2-4G	v4.51	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
Sandisk	16G	SDIN7DP4-16G	V4.51	MLC	11.5*13-BGA153	D/S	D/S	D/S	D/S	D/S	D/S	D/S	D/S		
	16G	SDIN8DE4-16G	v4.51	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	16G	SDIN8DE2-16G	v4.51	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	32G	SDIN8DE4-32G	v4.51	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	16G	SDIN9DW4-16G	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	32G	SDIN9DW4-32G	v5.0	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	32G	SDIN9DS2-32G	v5.0	TLC/1Ynm	11.5*13-BGA153									D/S	IO电压不支持3.3V
	16G	SDIN9DS2-16G	v5.0	TLC/1Ynm	11.5*13-BGA153									D/S	IO电压不支持3.3V
	4G	3EA28-JW878 (MTFC4GLWAM-WT)	v4.5		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		

	Conneity		eMMC		Pkg Size	A20	A23	A31(S)	A33	A80	A83	R58	R16	A64	
Vendor	Capacity (B)	Part Number	/SD	Cell&Process	(mm)	V1.60	V1.10	V1.60	V1.01	V1.01	V1.01	V1.01	V1.01	V1.01	Remark
	(6)	3CA28-JW879	730		(11111)	V1.00	V1.10	V1.00	V1.01	V1.01	V1.01	V1.01	V1.01	V1.01	
	8G	(MTFC8GLWAM-WT)	v4.5		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
		1UA18-JW729													
	4G	(MTFC4GMTEA-WT)	v4.41		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
Micron		2GA28-JW686													
	8G	(MTFC8GLSEA-IT)	v4.41		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
		3ZA28-JWA48													
	8G	(MTFC8GACAAEA-WT)	v4.51	MLC	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	40	3ZA28-JWA49	4.51	MIC	11 F*12 DCA1F2	C/T	C/T	C/T	C/T	C/T	C/T	C/T	c/T		
	4G	(MTFC4GACAAEA-WT)	v4.51	MLC	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	4G	THGBM5G5A1JBAIR	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	THGBM5G6A2JBAIR	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	THGBMAG7A2JBAIR	v4.5	19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	4G	THGBMAG5A1JBAIR	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	THGBMBG7D4KBAIR	v5.0	A19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
Toshiba	32G	THGBMBG8D4KBAIR	v5.0	MLC/A19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
TOSTIDA	8G	THGBMBG6D1KBAIL	v5.0	MLC/A19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	16G	THGBMBG7D2KBAIL	v5.0	MLC/A19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	16G	THGBM5G7A2JBAIR	v4.5	MLC/19nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	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										
	32G	THGBMFG8C2LBAIL	v5.0	MLC/15nm	11.5*13-BGA153				S/T				S/T	D/S	
	4G	H26M31003GMR	v4.51	MLC/20nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	H26M42003GMR	v4.51	MLC/20nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	H26M52003EQR	v4.51	MLC/20nm	12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
SKhynix	8G	H26M41103HPR	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
,	16G	H26M52103FMR	v5.0	MLC/16nm	11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T	
	4G	H26M31001HPR	v4.5	MLC/16nm	11.5*13-BGA153		S/T		S/T	_	_	_	S/T	_	
	32G	H26M64103EMR	v5.0	MLC/16nm	11.5*13-BGA153		S/T		S/T	S/T	S/T	S/T	S/T	S/T	
	8G	H26M41103HPRL	v5.0	MLC/16nm	11.5*13-BGA153										
	4G	KE44B26BN	v4.41		12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	KE4CV3H5A	v4.41		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	KE4CV4H5A	v4.41		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	8G	KE4CN3K6A	v4.5	-	12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
Kingston	4G	KE4CN2H5A	v4.5		11.5*13-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	KE4CN4K6A	v4.5		12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		
	16G	EMMC16G-V100	v5.0		11.5*13-BGA153		S/T				S/T	S/T			
	8G	EMMC08G-V100	v5.0		11.5*13-BGA153		S/T				S/T	S/T			
	8G	EMMC08G-S100	v5.0	 	11.5*13-BGA153	c /=	S/T	c/=	c/=	c /=	c /=	c /=	c I=		160
I	4G	NCTSTS86-04G	SD 2.0		12*20-TSOP48	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		tSD

	Capacity (B)		eMMC	Cell&Process	Pkg Size	A20	A23	A31(S)	A33	A80	A83	R58	R16	A64		
Vendor		Part Number	/SD		(mm)	V1.60	V1.10	V1.60	V1.01	V1.01	V1.01	V1.01	V1.01	V1.01		Remark
	8G	NCTSTS76-08G	SD 2.0		12*20-TSOP48	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		tSD	
	8G	NCEFES76-08G	v4.41		11.5*13.5-BGA153	S/T	S/T	Х	S/T	S/T	S/T	S/T	S/T		注1	
	16G	NCEFES76-16G	v4.41		11.5*13.5-BGA153	S/T	S/T	Х	S/T	S/T	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	S/T	S/T	S/T	S/T	S/T		fSD	
	8G	NCFSES76-08G	SD 2.0		11.5*13.5-BGA153	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T		fSD	
	4G	NCEFES76-04G	v4.41		11.5*13.5-BGA153	S/T	S/T	Х	S/T	S/T	S/T	S/T	S/T		注1	
	32G	NCEFEH58-32G	V4.51		11.5*13.5-BGA153					S/T	S/T	S/T		S/T		
	8G	NCFSES78-08G	SD 2.0		11.5*13.5-BGA153		S/T		S/T		S/T	S/T	S/T			
FORESEE	16G	NCEFEH58-16G	V4.51		11.5*13.5-BGA153		-			S/T	S/T	S/T		S/T		
	4G	NCEFES88-04G	v4.51		11.5*13.5-BGA153		S/T		S/T		S/T	S/T	S/T			
	8G	NCEFES78-08G	v4.51		11.5*13.5-BGA153		S/T		S/T		S/T	S/T	S/T	S/T		
	8G	NCFSESA8-08G	SD 2.0		11.5*13.5-BGA153		S/T		S/T		S/T	S/T	S/T		fSD	
	16G	NCEFBS98-16G	v4.5	TLC	12*16-BGA169		-				S/T	S/T		S/T	注2	
	4G	NCEFEM48-04G	v4.5	MLC	11.5*13.5-BGA153				S/T				S/T			
	16G	NCEMAH59-16G	v5.0		11.5*13-BGA153				S/T				S/T	S/T		
	32G	NCEMAH59-32G	v5.0		11.5*13-BGA153				S/T				S/T	S/T		
	16G	NCEMBS99-16G	v5.0		12*16-BGA169				S/T				S/T	S/T		
	32G	NCEMBS99-32G	v5.0		12*16-BGA169									D/S		
	8G	BWAMGTB11A08G	v4.51		12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T			
	16G	BWAMGTB21A16G	v4.51		12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T			
BIWIN	8G	BWBTA-08G	SD 2.0		11.5*13-BGA153		-		S/T				S/T			
	4G	BWBTA-04G	SD 2.0		11.5*13-BGA153				S/T				S/T			
4 6:	8G	NCMMCS08G	v4.5		12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T			
AcSip	16G	NCMMCS16G	v4.5		12*16-BGA169	S/T	S/T	S/T	S/T	S/T	S/T	S/T	S/T			
AVEXIR	16G	AVEC016G-FA6	v4.5		11.5*13-BGA153		S/T									
Skymedi	4G	SP18A4G751B-0003	V5.0		11.5*13-BGA153		S/T									
Skyrrieur	8G	SP18A8G752B-0003	V5.0		11.5*13-BGA153		S/T									
EUDAR	8GB	EMS1ASCBT1FC008	v4.51		11.5*13-BGA153				S/T				S/T			
	16G	EMS1ASCBT2FC016	v4.51		11.5*13-BGA153				S/T				S/T			
Domin	4GB	BEM04M5B50XA-A3CT	v4.51	MLC/20nm	11.5*13-BGA153				S/T				S/T			
Barun	4GB 8GB	BEM04S2B60XA-A3CT BEM08S1B60XA-A3CT			11.5*13-BGA153 11.5*13-BGA153				S/T S/T				S/T S/T			
	8GB	BEIMINSTRONXA-A3CI	V4.51	TITC/19nm	11.5 13-BGA153				3/1				3/1			

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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